

**SANITATION, INC. CLOSED LANDFILL
LEWISTOWN, MONTANA
License #291
JUNE 2014 GROUNDWATER SAMPLING REPORT**

Prepared for:
Barry Damschen Consulting, LLC

Prepared by:
Hydrometrics, Inc.
Consulting Scientists & Engineers 
3020 Bozeman Avenue
Helena, MT 59601

September 2014

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SEP 22 2014



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WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

Sanitation Inc. Landfill
License #291
June 2014 Groundwater Sampling Report

Attachment 2
Statistical Analysis Reports

September 2014



Hydrometrics, Inc.
Consulting Scientists and Engineers

3020 Bozeman
Helena, MT 59601
(406) 443-4150

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BARRY DAMSCHEN CONSULTING, LLC

Engineering • Solid Waste Management • Grant Administration

September 18, 2014

Mr. John Collins
Solid Waste Program
Department of Environmental Quality
P.O. Box 200901
Helena, MT 59620-0901

Dear John,

Please find enclosed our copy of the groundwater results for the Spring 2014 sampling event at the Sanitation Inc. landfill. The samples were collected on June 23, 2014.

As indicated in the attached report, there does not appear to be any significant changes in the quality of the groundwater from the last sampling event. Although, the total number of reported VOC concentrations in June 2014 (11) was slightly higher than in June 2013 (7), the concentrations of most parameters were slightly lower and all VOC concentrations were within the range previously observed at the site.

If you have any questions, please do not hesitate to call me or Mark Walker.

Very truly yours,
BARRY DAMSCHEN CONSULTING, LLC

Barry E. Damschen, P.E.
Project Manager

Enclosure

c: Sanitation Inc.



Hydrometrics, Inc.

consulting scientists and engineers

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September 18, 2014

Mr. Barry Damschen, P.E.
Barry Damschen Consulting, LLC
P.O. Box 7599
Helena, MT 59604

RECEIVED

SEP 22 2014

DEPT. OF ENVIRONMENT
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

RE: June 2014 Groundwater Monitoring Results
Closed Sanitation, Inc. Landfill, Lewistown, MT (License #291)

Dear Barry,

Hydrometrics, under contract to Barry Damschen Consulting, LLC, has prepared this letter report to transmit the results of the June 2014 groundwater monitoring at the Closed Sanitation, Inc. Landfill in Lewistown, Montana. Sampling activities were conducted on June 23, 2014.

Groundwater Flow Results

Monitoring locations for the Sanitation, Inc. landfill are shown on Figure 1. Static water levels were collected at monitoring wells SIMW-2, SIMW-3, and SIMW-4, and at piezometers SIP-1 and SIP-2 during the June 2014 monitoring event. Water level measurements and associated groundwater elevations are summarized in Table 1, and are shown on Figure 1. Groundwater hydrographs (elevation changes over time) for site wells are shown in Figure 2. The general shallow groundwater flow direction at the site is to the north and west. All site wells showed elevation decreases from June 2013 to June 2014, ranging from a 2.0 foot decrease at SIP-1 to an 8.19 foot decrease at SIMW-4. As observed during previous monitoring events, groundwater level fluctuations were largest at well SIMW-4, likely due to varying influence from the nearby detention pond (Figure 1). Water has not been observed in the pond for the last three years.

The hydraulic gradient at the site appears to increase with proximity to the small draw to the north. An estimated average gradient of 0.19 was calculated for the site, based on the distance between the 4080-ft and 4050-ft groundwater elevation contours with a flow direction toward SIMW-4 (Figure 1). The groundwater seepage velocity can be estimated with previously determined (Entranco, 2002) values for aquifer porosity (estimated at 0.35), and hydraulic conductivity (9.2 ft/day), using the formula $V_s = KI/n_e$ where V_s = seepage velocity (ft/day); K = hydraulic conductivity (ft/day); I = hydraulic gradient (dimensionless); and n_e = porosity (dimensionless).

Using the values cited above, the estimated groundwater seepage velocity near well SIMW-4 for June 2014 is 5.0 ft/day or about 1825 ft/year.

Groundwater Quality Results

Water quality samples were collected from wells SIMW-2, SIMW-3, and SIMW-4 by bailing. Well SIMW-1 was previously removed from the groundwater monitoring program, so no sample or water level was collected at this well. Quality control (QC) samples included a field duplicate (collected at SIMW-4), a trip blank, and standard internal laboratory QC samples. Samples were submitted to Energy Laboratories in Billings, Montana for analysis of Solid Waste Table 1 inorganic parameters and volatile organic compounds (VOCs). Field sampling notes and laboratory analytical reports are in Attachment 1.

Trend plots were compiled for selected parameters and are in Attachment 1. Statistical Reports are located on the compact disc in Attachment 2 and field sampling notes and laboratory analytical reports are in Attachment 3.

Quality Control Results

All parameters were below reporting limits in the trip blank, as shown in Attachment-3. The duplicate sample pair showed excellent agreement for inorganic parameters, compared with the control limits presented in EPA guidance (EPA, 2010). Suggested duplicate sample control limits for inorganic parameters are <20% relative percent difference (RPD) for duplicate pairs with results $\geq$ five times the reporting limit (RL), or $\pm$ the reporting limit for duplicate pairs with one or both results < five times the reporting limit. The June 2014 inorganic groundwater data for the closed Sanitation, Inc. landfill sample-duplicate pair showed RPDs ranging from 0.0% to 4.3%, with an average of 2.1%. Dissolved copper, mercury, selenium and zinc results agreed to within the $\pm$ RL control limit.

EPA guidance for organic data review (EPA, 2008) does not list suggested control limits for duplicate samples. However, the RPDs for benzene (0.0%), chlorobenzene (7.4%), and 1,4-dichlorobenzene (4.1%) in the June 2014 sample-duplicate pair demonstrated good agreement.

Note that for sample-duplicate pairs, the higher of the two values reported is retained in the database and used for statistical testing purposes (or the lower of the two values for pH).

It should be noted that, in order to achieve the required reporting values (RRVs) in the current (October 2012) version of MDEQ Circular DEQ-7, and in accordance with current MDEQ Solid Waste Section guidance, lower laboratory reporting limits were used for many dissolved metals beginning with the June 2013 monitoring event, compared with previous typical reporting limits. In many cases, the updated RRV-based reporting limits are significantly lower than the historic limits. These reporting limit changes will impact the statistical analysis of metals data, since metals which were previously reported as consistently below the detection limit may now be quantified at concentrations several orders of magnitude lower than the previous limit. Until additional data points are obtained to develop a more robust data set at the new lower reporting limits, it is likely that the power of the statistical tests to identify statistically significant exceedances and/or trends for metals will be diminished.

Statistical Testing Results

Intrawell prediction limits were used for statistical testing of the June 2014 groundwater data, since none of the three wells currently monitored can be considered upgradient of the waste fill areas. Baseline data for each parameter at each well included all appropriate data prior to the current sampling event. 'Historical' outliers observed prior to June 2009 were identified and removed from the baseline data set as described in the June 2009 statistical report (Hydrometrics, 2010), and as recommended in a subsequent letter from MDEQ (MDEQ, 2010).

In addition, results exceeding prediction limits during June 2009 and subsequent monitoring events are also removed from the database for distribution and prediction limit testing. Note, however, that previous prediction limit exceedances are shown on the trend plots in Attachment 1 (and are included for trend testing if necessary). In the cases of certain metals for which lowered detection limits were used beginning in June 2013, detectable values at concentrations lower than previously utilized detection limits are not considered outliers. Outliers that were removed for purposes of intrawell statistical testing are tabulated in Attachment 2.

The Shapiro-Wilks Test of Normality was used to determine the distribution of the data (after removal of outliers) for each parameter at each well. June 2014 results were then compared with parametric or nonparametric prediction limits, based on the results of the normality test. In some cases (due to recently lowered metals reporting limit), the maximum value observed in the background data set was used as the prediction limit. Tests for trend (Mann-Kendall or Sen's Slope) were conducted for any parameters showing a prediction limit exceedance, except in cases where insufficient quantifiable data for trend testing was available. The intrawell prediction limit results are summarized in Table 2, and detailed statistical reports are in Attachment 2.

Inorganic Parameters

In general, inorganic parameter concentrations for June 2014 were similar to values observed during recent monitoring events. Groundwater pH in the Sanitation, Inc. monitoring wells ranged from 7.0 to 7.3 in June 2014, and SC values ranged from 1240 μ mhos/cm at SIMW-3 to 1930 μ mhos/cm at SIMW-4 (Table 2). The nitrate + nitrite concentration increased slightly at well SIMW-3 from 9.3 mg/L in June 2013 to 10.5 mg/L in June 2014, just above the DEQ-7 groundwater standard of 10 mg/L. Detectable dissolved metals in June 2014 groundwater samples included the following: barium, copper, nickel, and zinc at well SIMW-2; barium, cadmium, iron, lead, nickel, selenium, and zinc at well SIMW-3; and barium, cadmium, copper, mercury, nickel, selenium, and zinc at well SIMW-4 (Table 2). For many of these parameters, the June 2014 results represented the first or second detectable concentration observed during the monitoring period. The increase in detectable dissolved metals concentrations beginning in June 2013 is attributable to the establishment of lower reporting limits for many constituents, as discussed above.

Prediction limit exceedances were noted for conductivity, chloride, sulfate at well SIMW-3 (Table 2). In addition, low concentrations of dissolved metals exceeded prediction limits at all

three wells, including copper at well SIMW-2, cadmium and iron at well SIMW-3, and cadmium and mercury at well SIMW-4 (Table 2). Statistically significant increasing trends were obtained for all inorganic prediction limit exceedances with the exception of iron at SIMW-3. Trend testing was not conducted for most dissolved metals parameters, due to a lack of sufficient quantifiable concentrations (above the reporting limit) to evaluate trends.

The trend plots in Attachment 1 show slightly increasing trends for conductivity at both SIMW-2 and SIMW-3 over about the last eight years, although the values have recently stabilized. Chloride trends at all three wells are stable or (at SIMW-4) recently decreasing. Sulfate concentrations have increased at well SIMW-3 since about 2008, while concentrations at the other two site wells have shown variable concentrations over the same period (Attachment 1). The nitrate + nitrite concentration at SIMW-4 in June 2014 decreased to 0.89 mg/L from the June 2013 concentration of 2.14 mg/L (the maximum concentration observed at this well to date).

The dissolved metals concentrations in June 2014 groundwater samples were consistent with previously observed concentrations for these constituents. As noted in the June 2013 report (Hydrometrics, 2013), additional data collection at the lower metals reporting limits now in effect will be required to further establish baseline concentrations and to evaluate intrawell prediction limit exceedances and/or trends for these parameters.

Organic Parameters

Similar to previous monitoring events, a number of low-level VOC parameters were reported in the June 2014 samples for each of the three sampled wells. In most instances, results were qualified 'J' by the laboratory as present, but below the laboratory reporting limit, as follows:

Site	6/14 VOCs Reported (µg/L)
SIMW-2	dichlorodifluoromethane (0.22 J)
	1,1-dichloroethane (0.16 J)
	tetrachloroethene (0.15 J)
	1,1,1-trichloroethane (0.56)
	trichlorofluoromethane (0.16 J)
SIMW-3	dichlorodifluoromethane (0.15 J)
	1,1,1-trichloroethane (0.29 J)
	trichlorofluoromethane (0.67)
SIMW-4	benzene (0.13 J)
	chlorobenzene (0.14 J)
	dichlorodifluoromethane (0.25 J)

The number of VOCs reported in June 2014 samples (eleven) was slightly more than the number reported in June 2013 samples (seven); however, concentrations of most parameters were

slightly lower in June 2014 than in June 2013, and all VOC detections were within the range previously observed in site groundwater.

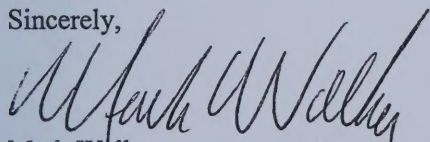
Mann-Kendall trend tests were conducted for each of the reported VOC parameters. Statistically significant increasing trends were obtained for all VOCs tested (several VOCs were not tested for trend due to a lack of sufficient quantified data for meaningful trend testing) (Table 2). Inspection of the trend plots in Attachment 1, however, shows that many VOC concentrations follow a typical pattern of periods of sporadic low-level detections interspersed with non-detectable values, with concentrations remaining relatively stable over time. It appears that the statistically significant increasing trends for VOCs noted in this report are due in large part to the replacement of below detect values with zero prior to trend testing.

Summary

Groundwater elevation data for the June 2014 groundwater-monitoring event at the Closed Sanitation, Inc. Landfill were consistent with historic results, indicating flow to the north and west and an approximate seepage velocity of 5.0 ft/day. Groundwater samples collected in June 2014 also showed results consistent with previous data, in terms of inorganic parameter prediction limit exceedances, trends, and reported VOC concentrations. A number of low level dissolved metals were reported again in June 2014, after detection limits were lowered beginning with the June 2013 monitoring event. Low (J-qualified) VOC concentrations were reported at all three monitoring wells, along with increasing trend test results for most of these parameters. However, as shown on the trend plots, detected VOC parameters show similar patterns of sporadic low values interspersed with below detect values, and increasing trend test results are largely a function of replacement of nondetect values with zero for purposes of trend testing. June 2014 VOC concentrations were all within previously observed ranges for site monitoring wells, and show generally stable trends.

If you have any questions regarding this data report, please feel free to contact me at (406) 443-4150, Ext. 146.

Sincerely,



Mark Walker
Environmental Scientist

Enclosures

c: Closed Sanitation, Inc. Landfill
Barry Damschen Consulting, LLC

REFERENCES

- Entranco, 2002. Sanitation, Inc. Letter Report from Bruce Siegmund to Pat Potts, MDEQ dated March 21, 2002.
- EPA, 2008. USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review. Office of Superfund Remediation and Technology Innovation, EPA 540-R-08-01, June 2008.
- EPA, 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities -- Unified Guidance. Office of Resource Conservation and Recovery, Program Implementation and Information Division, EPA 530-R-09-007, March 2009.
- EPA, 2010. USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review. Office of Superfund Remediation and Technology Innovation, EPA 540-R-10-011, January 2010.
- Hydrometrics, 2010. Sanitation, Inc. Landfill, Lewistown, Montana -- June 2009 Groundwater Sampling Report. Prepared for Barry Damschen Consulting, LLC. May 2010.
- Hydrometrics, 2013. Sanitation, Inc. Landfill, Lewistown, Montana -- June 2013 Groundwater Sampling Report. Prepared for Barry Damschen Consulting, LLC. September 2013.
- MDEQ, 2010. Letter to Mr. William Spoja (Sanitation Inc.) from Mr. Martin van Oort (MDEQ) RE: Closed Sanitation Inc. Landfill -- Fergus County -- License #291, June 2009 Groundwater Sampling Report. Dated June 2, 2010.

TABLES

TABLE 1. WATER LEVEL MEASUREMENT RESULTS

Well	June 2014 Static Water Level (ft bmp)	June 2014 Groundwater Elevation (ft)
SIMW-2	36.54	4087.17
SIMW-3	32.18	4078.73
SIMW-4	35.09	4042.98
SIP-1	35.28	4084.96
SIP-2	53.46	4097.88

NOTES: bmp = below measuring point

TABLE 2. JUNE 2014 INTRAWELL PREDICTION LIMIT SUMMARY
Closed Sanitation, Inc. Landfill, Lewistown, Montana

Parameter	SIMW-2			SIMW-3			SIMW-4		
	Dist ¹	PL ²	Value	Dist ¹	PL ²	Value	Dist ¹	PL ²	Value
pH (s.u.)	N(95)	6.2-8.1	7.0	N(95)	6.4-8.3	7.3	N(95)	6.4-7.4	7.1
SC (µmhos/cm)	NN	1572	1440	ln-N(99)	1229	1240 [^]	N(95)	3477	1930
chloride (mg/L)	N(95)	81	58	N(95)	38	39 [^]	N(95)	337	153
sulfate (mg/L)	N(95)	262	218	NN	162	219 [^]	N(95)	365	158
COD (mg/L)	NC	NC	<5	ln-N(95)	59	6	N(95)	184	40
nitrate + nitrite (mg/L as N)	N(95)	4.63	2.55	N(95)	12.9	10.5	NN	1.66	0.89
barium (diss) (mg/L)	Max	0.040	0.027	Max	0.011	0.009	Max	0.043	0.033
cadmium (diss) (mg/L)	NC	NC	<0.00003	ND	0.00003	0.00004#	Max	0.00041	0.00052#
copper (diss) (mg/L)	ND	0.001	0.003#	NC	NC	<0.002	Max	0.003	0.003
iron (diss) (mg/L)	NC	NC	<0.02	NN	0.66	0.8*	NC	NC	<0.02
lead (diss) (mg/L)	NC	NC	<0.0003	Max	0.0009	0.0009	NC	NC	<0.0003
mercury (diss) (mg/L)	NC	NC	<0.000005	NC	NC	<0.000005	Max	0.0000067	0.0000112#
nickel (diss) (mg/L)	Max	0.07	0.003	Max	0.11	0.003	N(95)	0.076	0.024
selenium (diss) (mg/L)	NC	NC	<0.001	N(95)	0.026	0.021	Max	0.008	0.001
zinc (diss) (mg/L)	ln-N(95)	0.123	0.011	NN	0.03	0.013	N(95)	0.054	0.015
benzene (µg/L)	NC		<0.5	NC		<0.5	ND		0.13 (J) [^]
chlorobenzene (µg/L)	NC		<0.5	NC		<0.5	ND		0.14 (J)#
1,4-dichlorobenzene	NC		<0.5	NC		<0.5	ND		0.25 (J)#
dichlorodifluoromethane	ND		0.22 (J)*	ND		0.15 (J)*	NC		<0.5
1,1-dichloroethane (µg/L)	ND		0.16 (J) [^]	NC		<0.5	NC		<0.5
tetrachloroethene	ND		0.15 (J)#	NC		<0.5	NC		<0.5
1,1,1-trichloroethane (µg/L)	ND		0.56 [^]	ND		0.29 (J) [^]	NC		<0.5
trichlorofluoromethane (µg/L)	ND		0.16 (J)*	ND		0.67 [^]	NC		<0.5

NOTES: ¹ Dist = Distribution; test for normality was conducted using the Shapiro-Wilks test.

N(X) = data normally distributed at X% level of significance

ln-N(X) = data ln-normally distributed at X% level of significance

NN = data not normally or ln-normally distributed at 95% or 99% level of significance.

ND = baseline data below detection limits.

Max = Insufficient data at lower detection limits to determine distribution; maximum detectable previous value set as prediction limit

² PL = Prediction limits; calculated as follows:

Normal or ln-normal distribution: parametric intrawell prediction interval (99% one-sided, two-sided for pH)

Non-normal distribution: non-parametric intrawell prediction interval (99% one-sided, two-sided for pH)

ND: any detectable concentrations in compliance wells are considered significant

Bold values indicate statistically significant results.

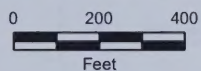
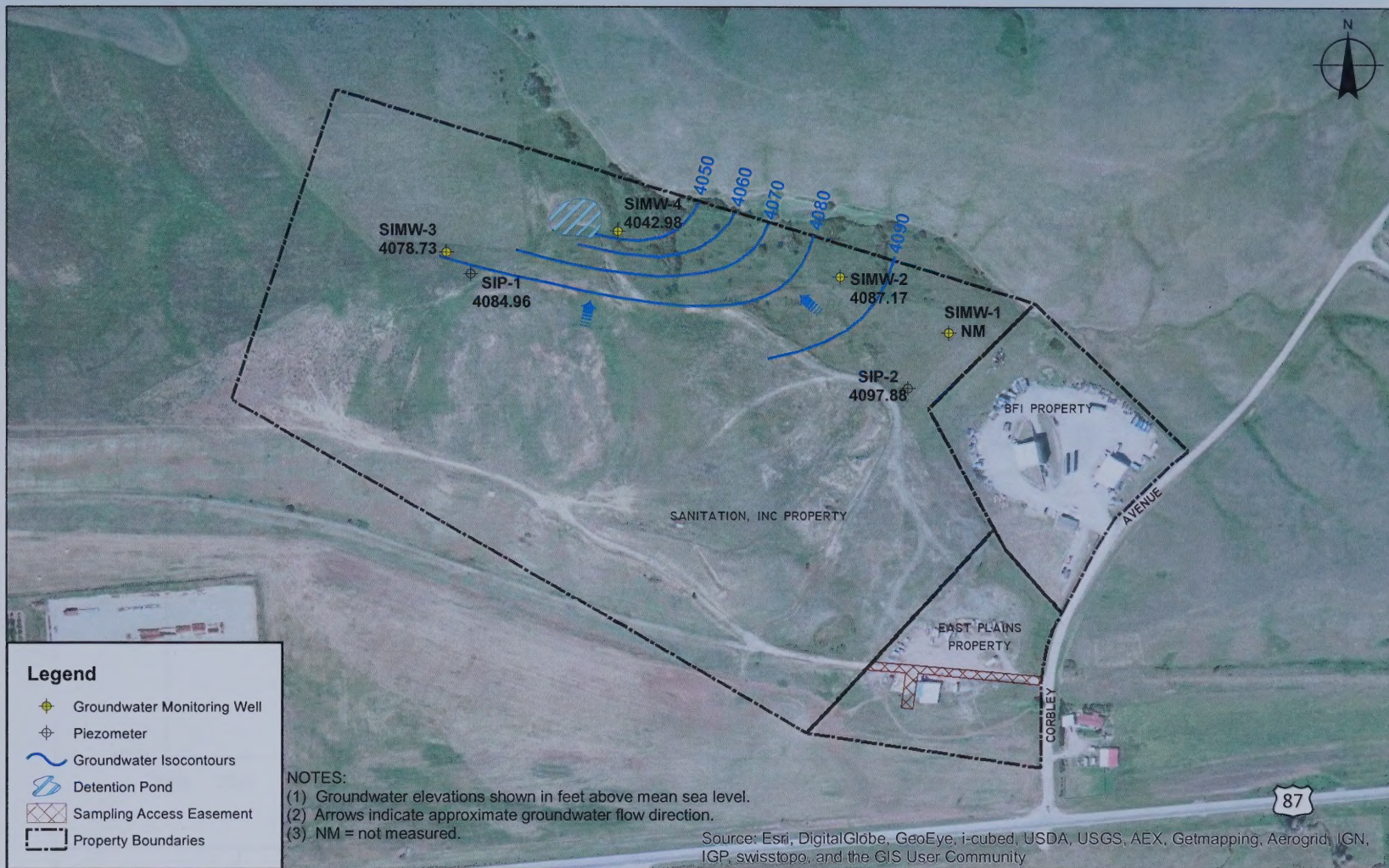
NC = not calculated (most recent sample below detection limit).

#Trend test not conducted due to insufficient data points above reporting limits

*Trend test indicated no significant increasing (or decreasing for pH) trend.

[^]Trend test indicated a significant increasing trend.

FIGURES

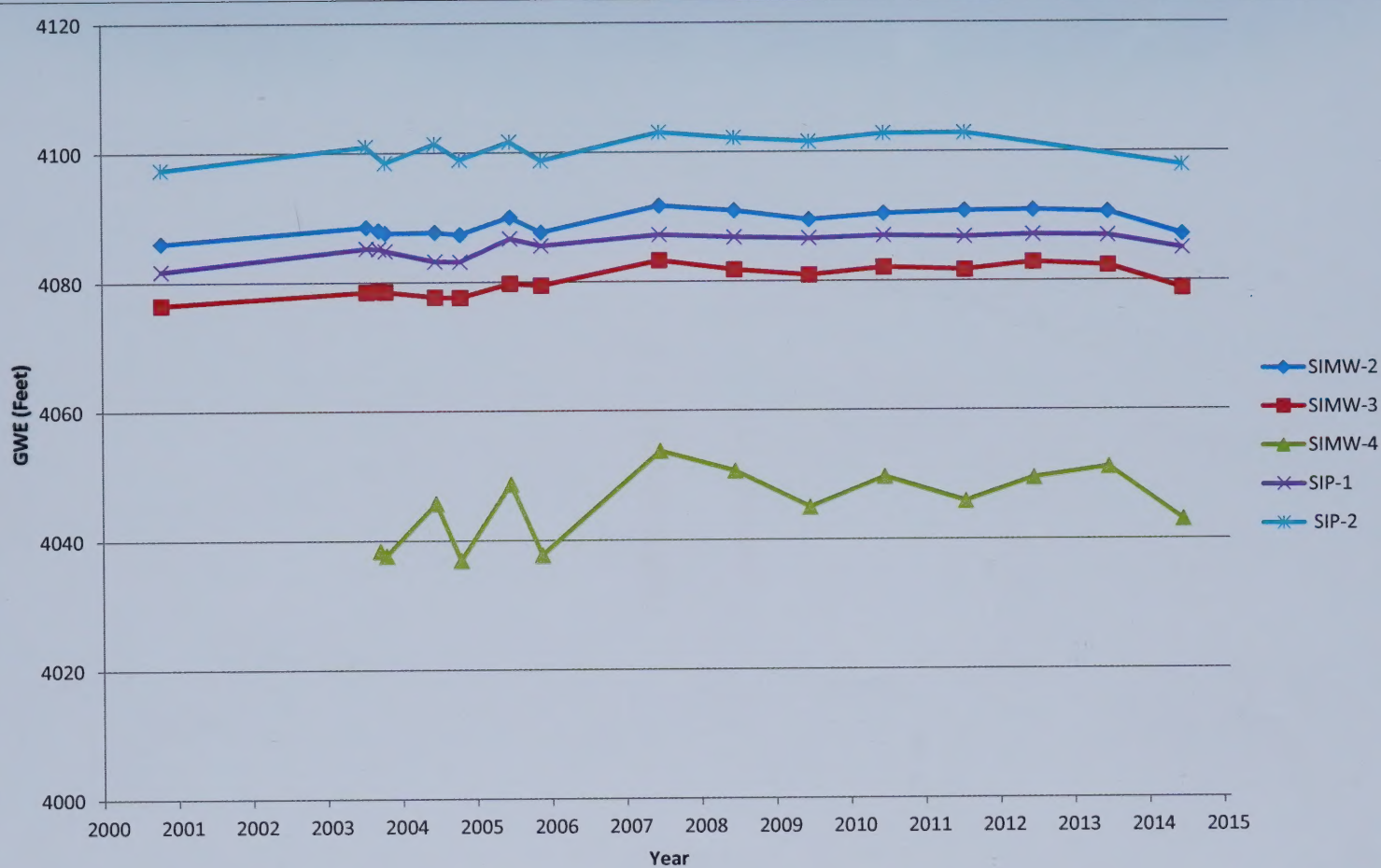


**Closed Sanitation, Inc. Landfill
June 2014 Groundwater Monitoring Report**

**JUNE 2014
GROUNDWATER MONITORING LOCATIONS
AND GROUNDWATER ELEVATIONS**

FIGURE

1

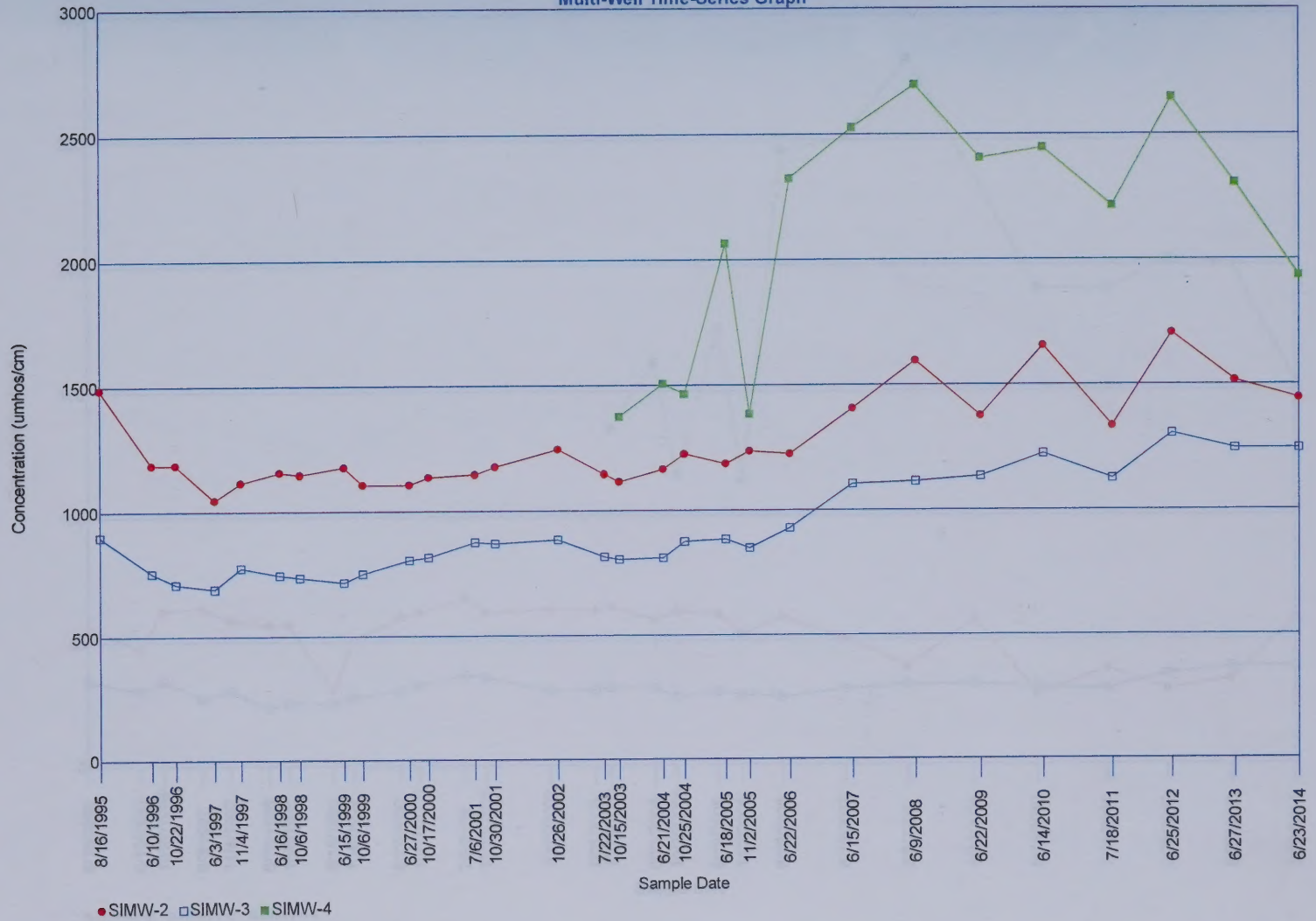


ATTACHMENT 1

TREND GRAPHS



Conductivity
Multi-Well Time-Series Graph



Chloride
Multi-Well Time-Series Graph



Sulfate
Multi-Well Time-Series Graph

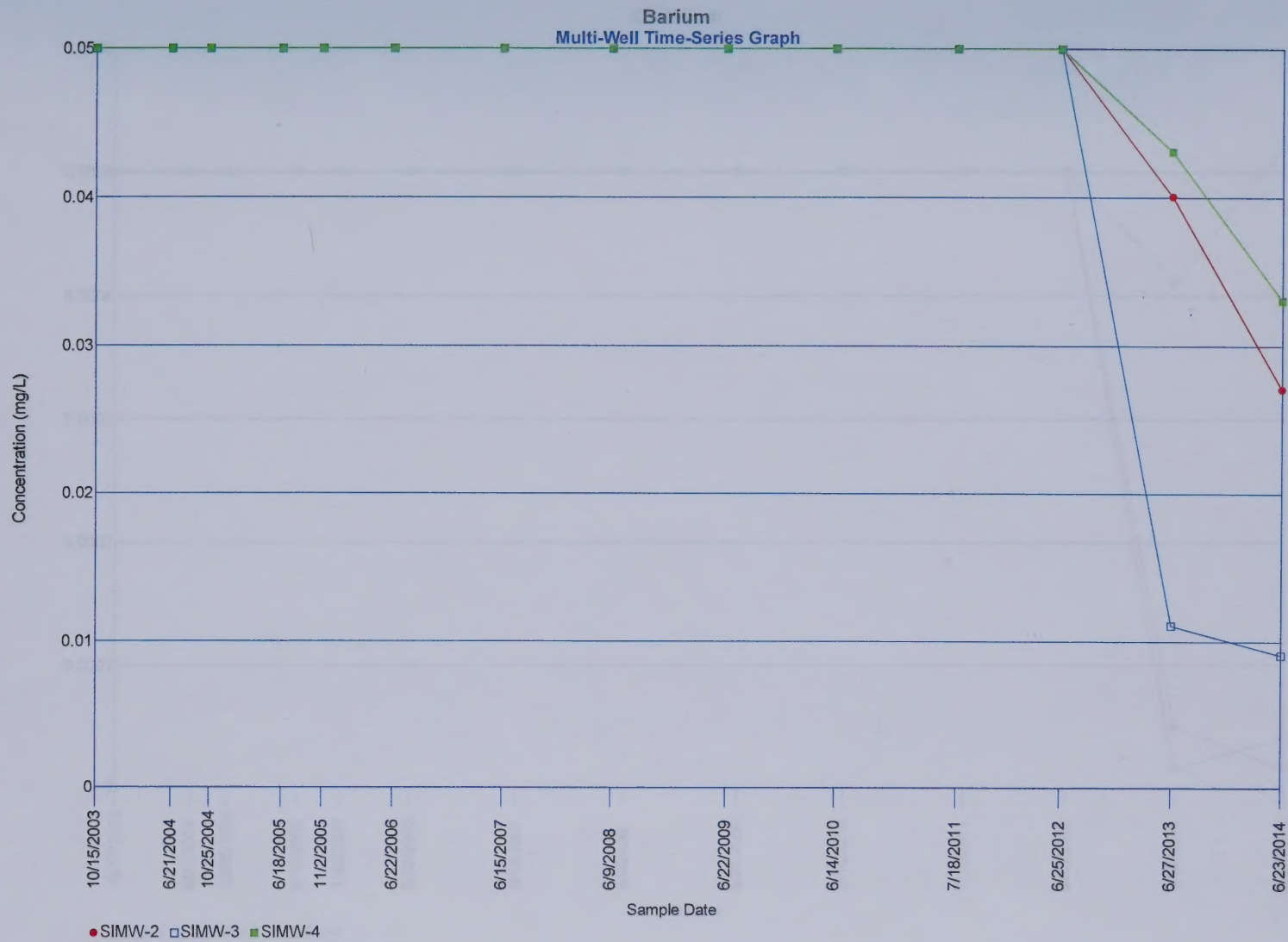


Oxygen Demand, Chemical (COD)
Multi-Well Time-Series Graph

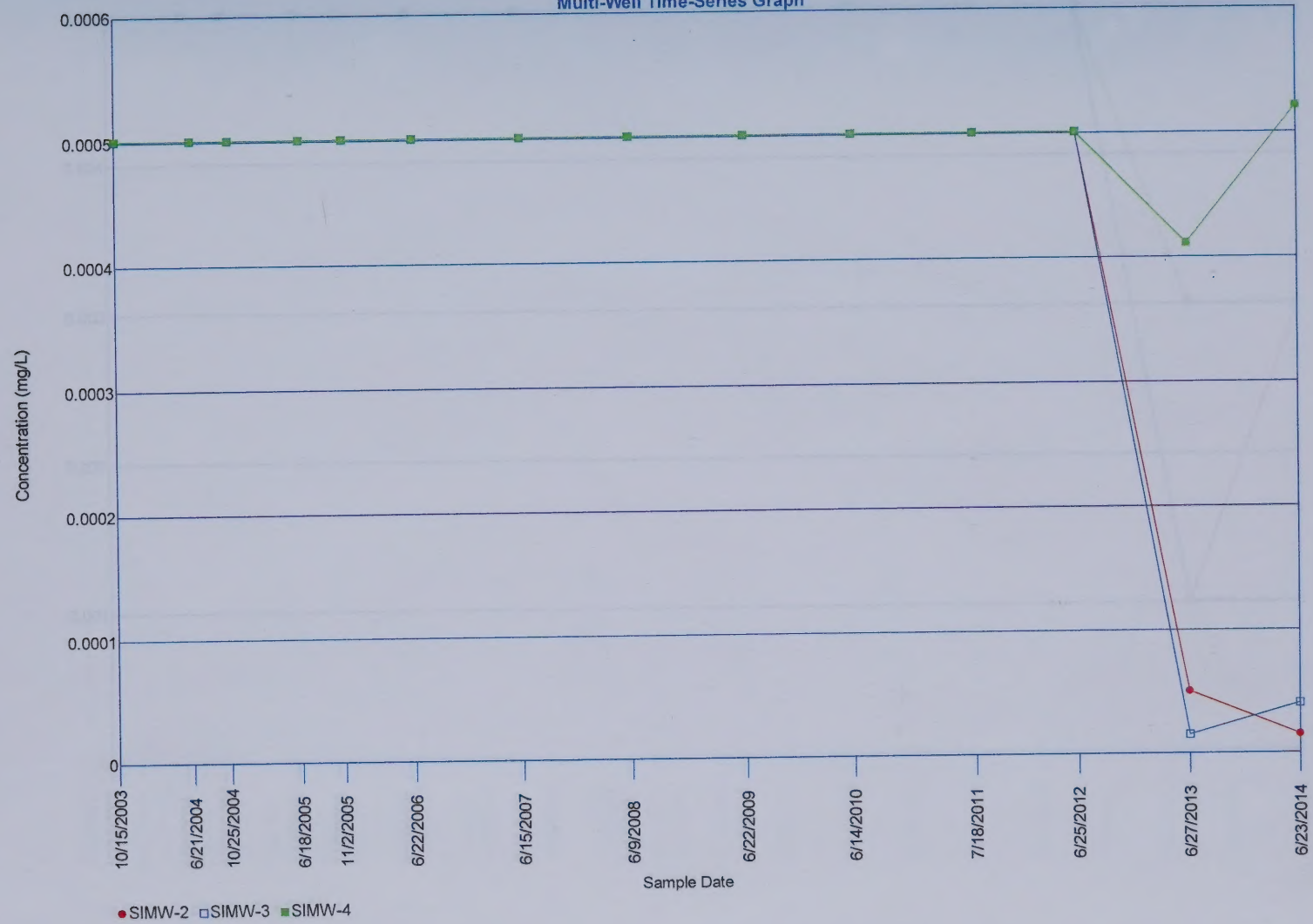


Nitrate + Nitrite as N
Multi-Well Time-Series Graph



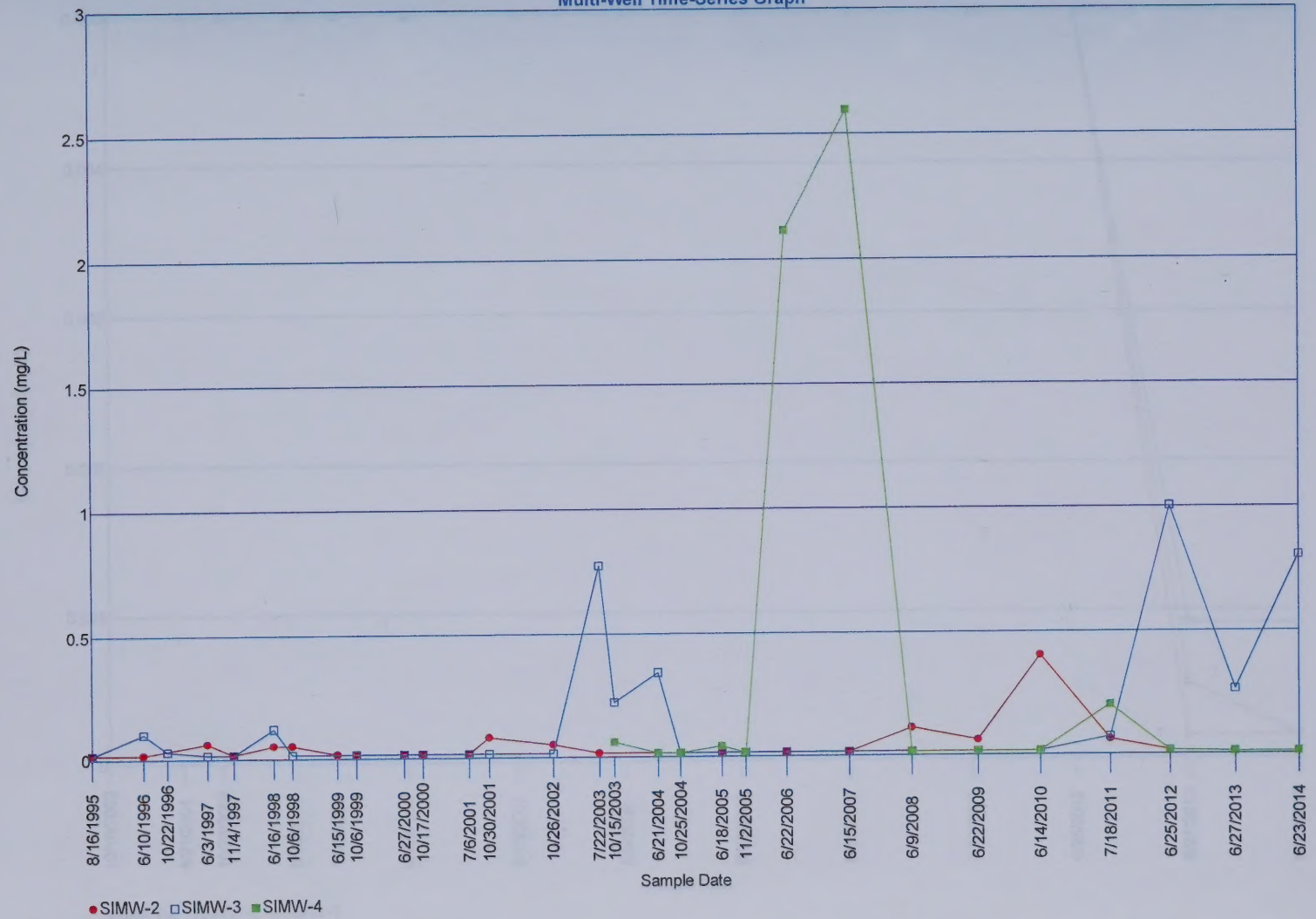


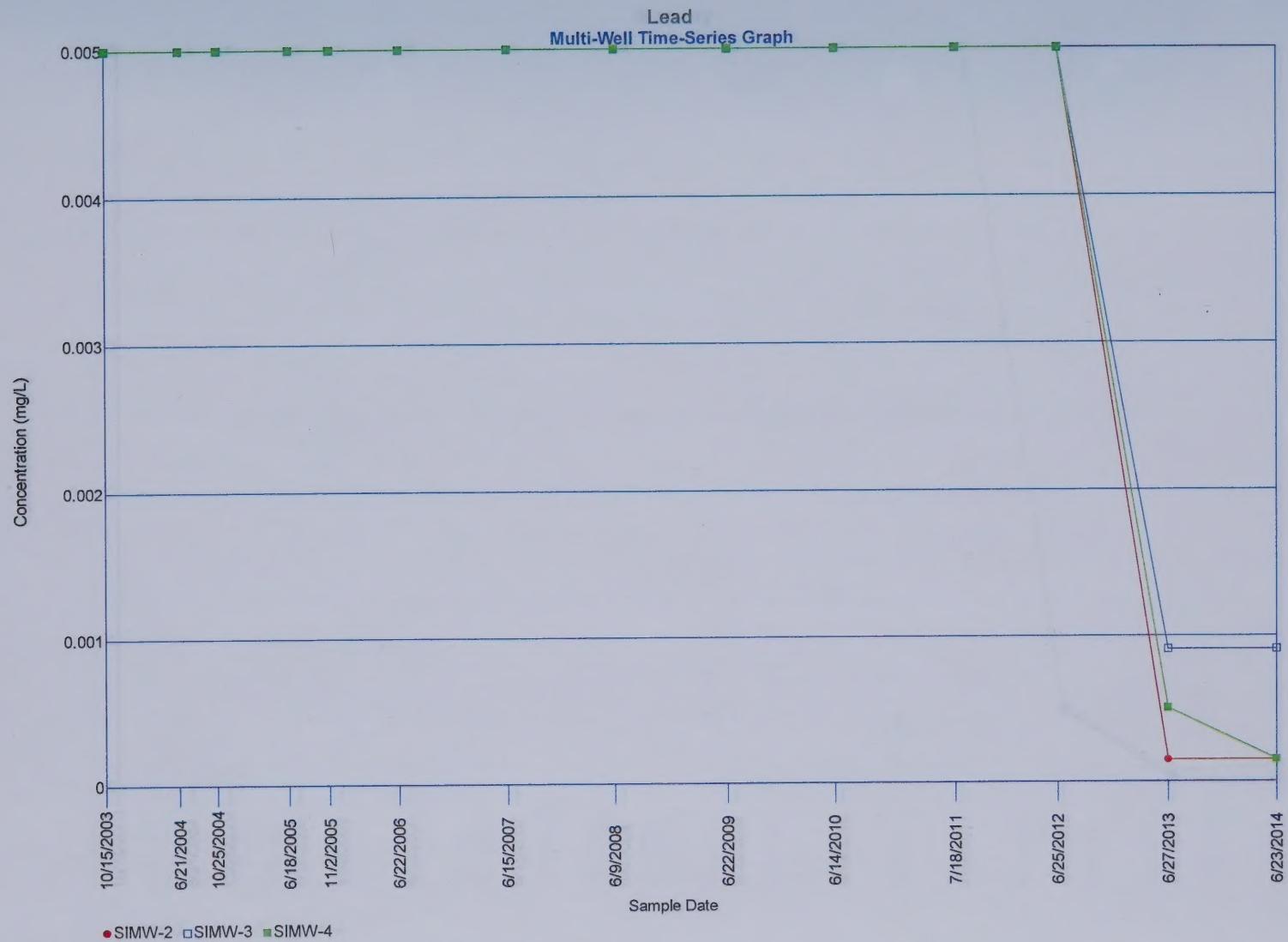
Cadmium
Multi-Well Time-Series Graph





Iron
Multi-Well Time-Series Graph



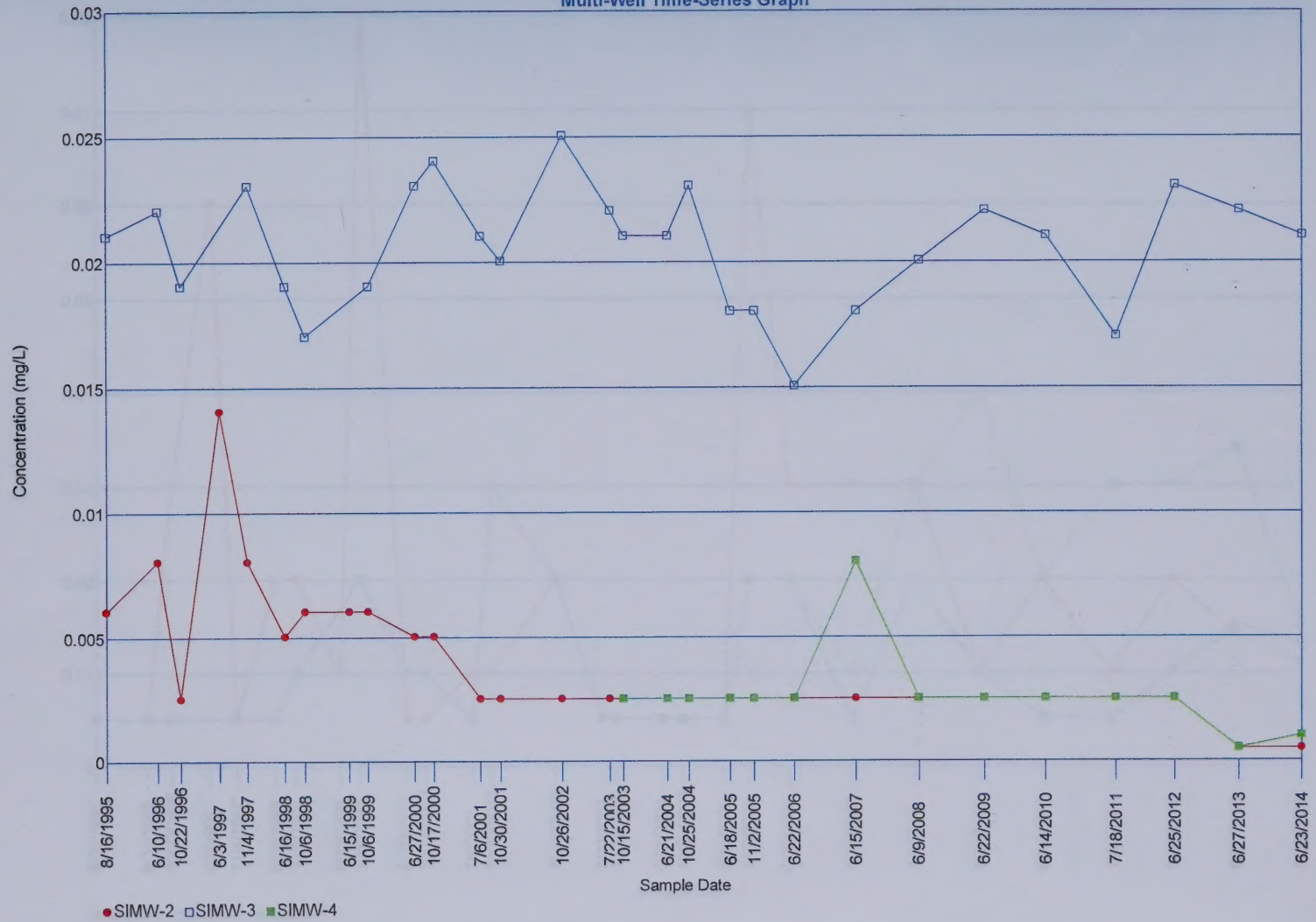




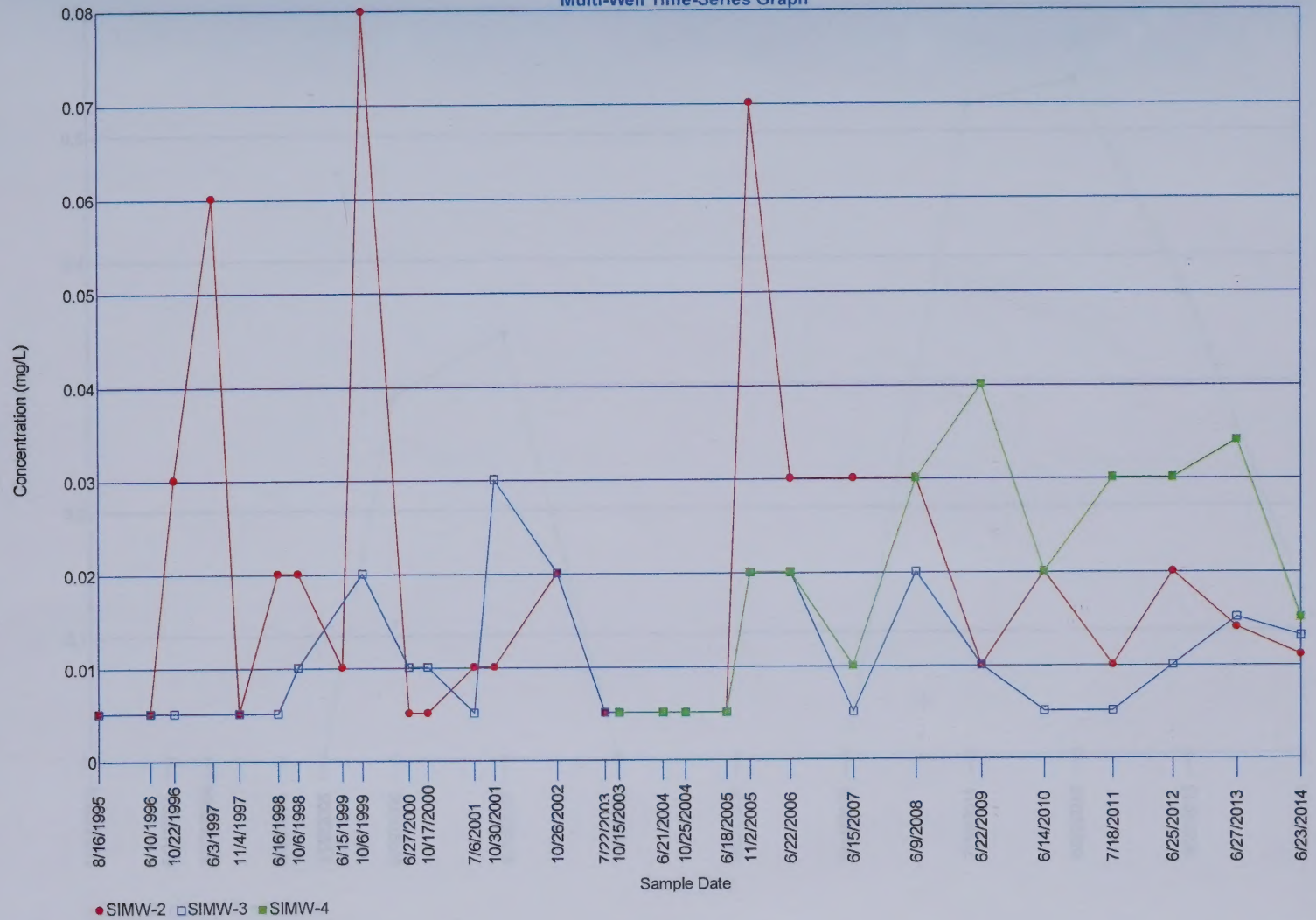
Nickel
Multi-Well Time-Series Graph



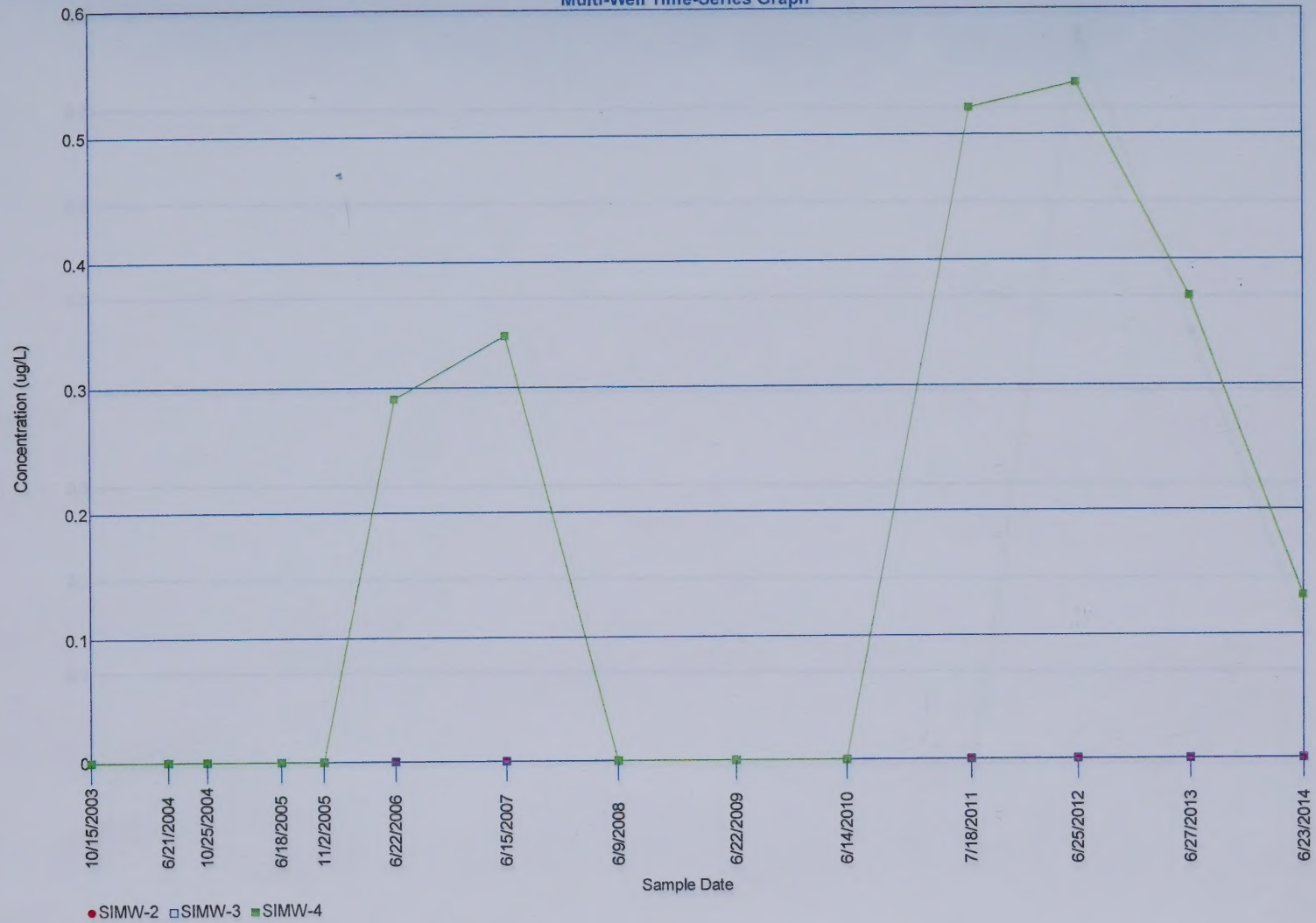
Selenium
Multi-Well Time-Series Graph



Zinc
Multi-Well Time-Series Graph



Benzene
Multi-Well Time-Series Graph



Chlorobenzene
Multi-Well Time-Series Graph



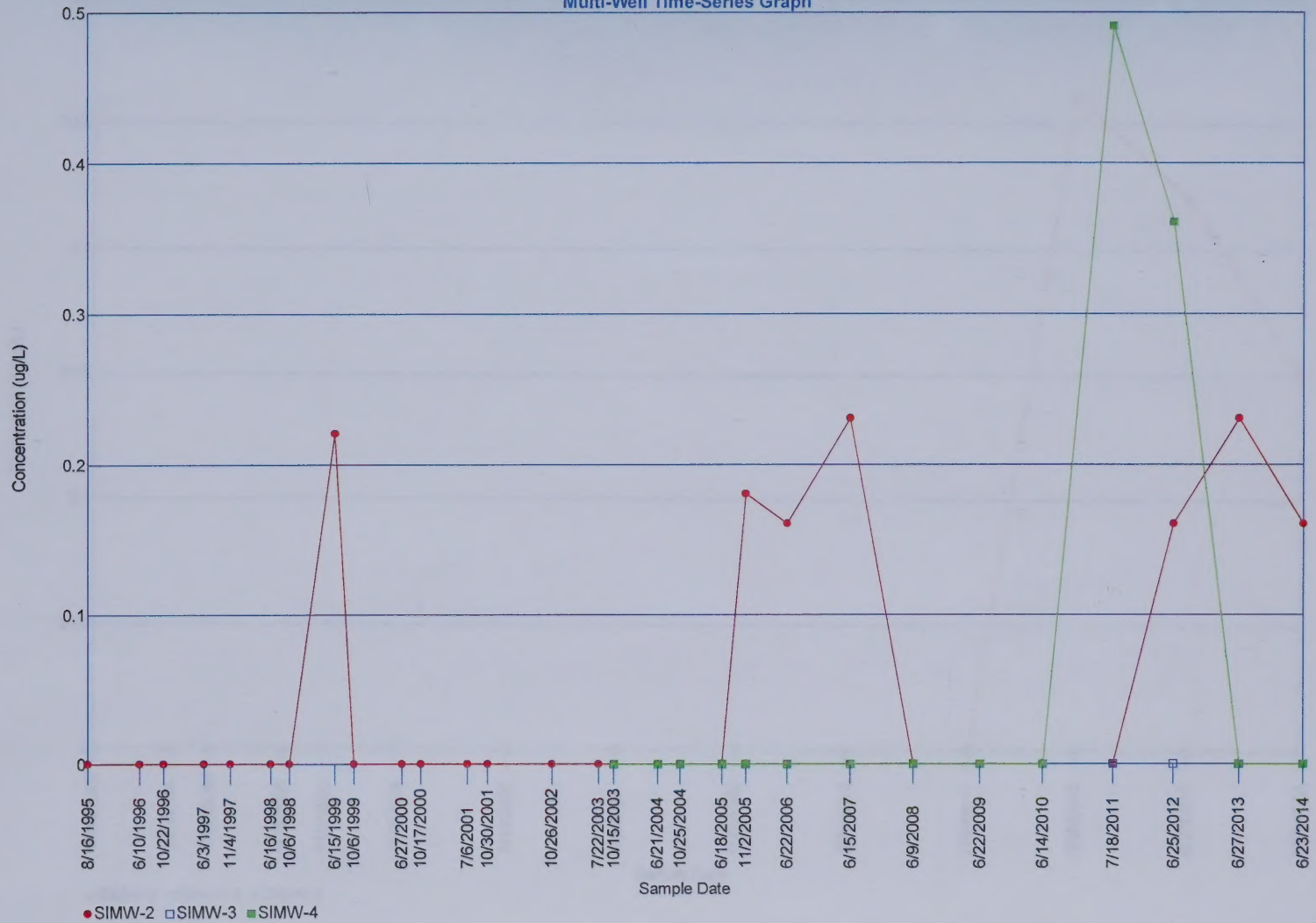
1,4-Dichlorobenzene
Multi-Well Time-Series Graph



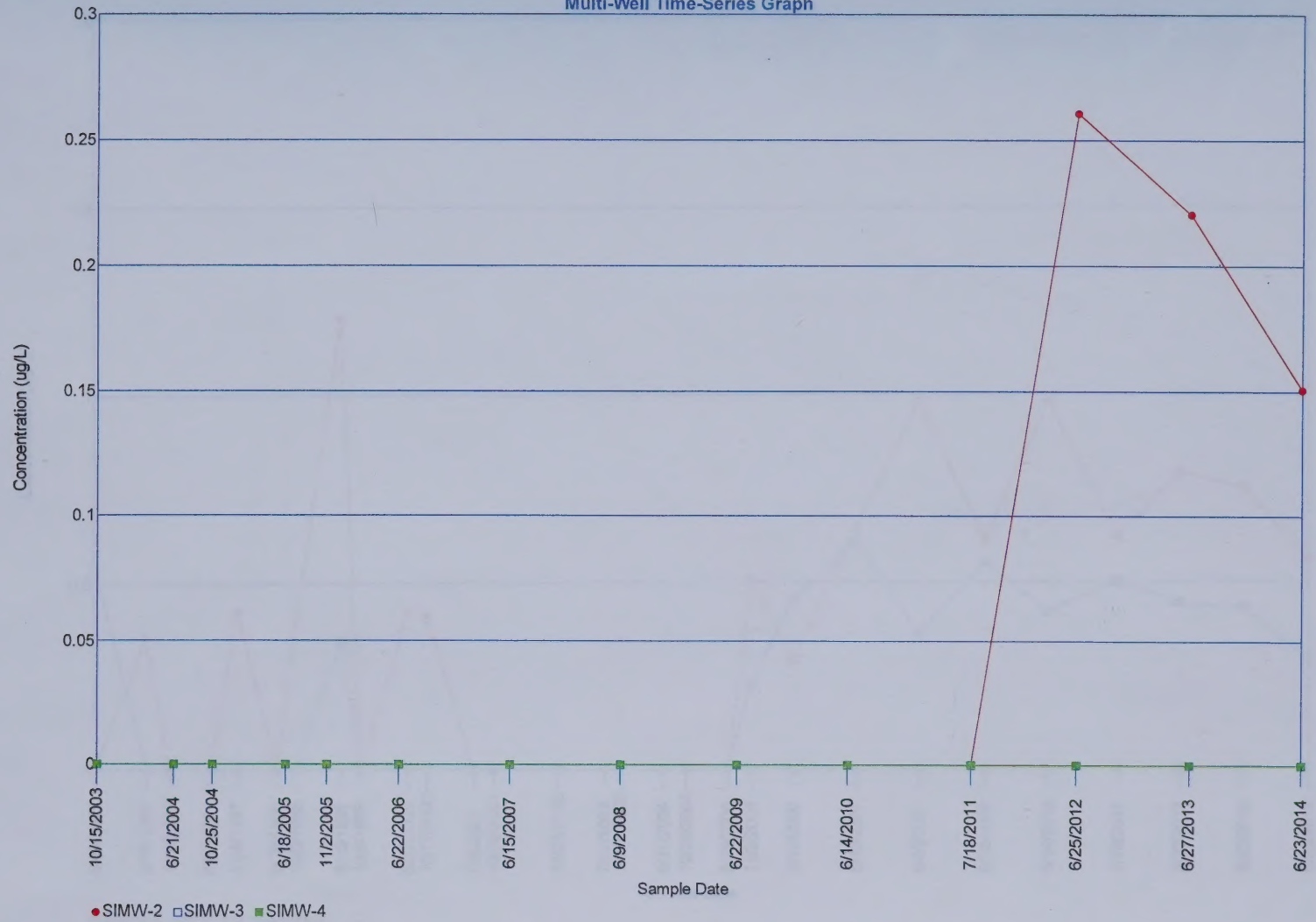
Dichlorodifluoromethane
Multi-Well Time-Series Graph



1,1-Dichloroethane
Multi-Well Time-Series Graph



Tetrachloroethene
Multi-Well Time-Series Graph



1,1,1-Trichloroethane
Multi-Well Time-Series Graph



ATTACHMENT 2

STATISTICAL ANALYSIS REPORTS

ATTACHMENT 3

FIELD FORMS AND LABORATORY REPORT

pH-SC-Temp.

Instrument Calibration Form

Model Type: Hydramatic Corp. (6338)

Serial No: 00059

Project Name: San. tolin Tr. LF

Date: 6-23-14

Personnel: B. Dimick

Weather: Sunny

pH CALIBRATION

Time	Temp	pH	Reading
1200	7	11.8	7.64

Calibration Check: _____

TEMPERATURE CALIBRATION

Time	Temp	Temp	Temp	Cell Factor
1200	1413	11.9	1419	

Notes: _____

GROUNDWATER MONITORING VOLUMES

Project Location Sa. totin Trc Cfill Date Sampled B. D. Amh

Well No.	Total Depth (Ft)	Depth to Water (Ft)	Difference (Ft)	1 Well Volume (Diff X .16)	3 Well Volume (X3)
2					
Typical	40	33	7	1.12	3.36
This Period		36.5	3.5	.56	1.7
3					
Typical	37.5	29	8.5	1.36	4.1
This Period		32.2		.85	2.5
4					
Typical	49.5	27	22.5	3.6	10
This Period		35	14.5	2.3	7
Typical					
This Period					
Typical					
This Period					

BARRY DANKS-REYNOLDS CONSULTING, LLC
~~Address, Minnesota~~

Ground Water Monitoring Field Report

Project: Sanitation Inc (ack 11) Well: SIP#2-2
 Personnel: B. Danks
 Date: 6-23-14 Time: 1230
 Conditions: sum-p breeze -60's
 Static Water Level: 36.54 Total Depth Piped: _____
 Purge Method: hand hi. low Volume Piped: _____

	Volume	Temperature	Conductivity	pH
1.	<u>1/2 (dry)</u>	<u>13.8</u>	<u>1396</u>	<u>7.03</u>
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Pneumatic Pump)

Recovery (Inches or Feet):

h1 0 h2 0.10 h3 15.11 h4 40.7

Comments:

SIP#2 = 53.46

BARRY DAMSCHEN CONSULTING, LLC
Release Monitoring

Ground Water Monitoring Field Report

Project: Sandlot on Inc Landfill Well: SIMW-3
Personnel: B Damsch
Date: 6-23-14 Time: 1330
Conditions: Sunny - 70
Static Water Level: 32.18 Total Depth Purgar: _____
Purge Method: hard hauler Volume Purgar: _____

	Water Level	Temperature	Conductivity	pH
1.	<u>1 1/2 ft deep</u>	<u>14.0</u>	<u>117</u>	<u>7.23</u>
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Discharge Pump)

Recovery (Inertial or better):

hl 0 at 0.10 sec 7500 depth 36.1

Comments:

SIP #1 = 35.28

~~BARRY DANIELSON CONSULTING LLC~~
~~Bellevue, Minnesota~~

~~Ground Water Monitoring Field Report~~

Project: Sanitation Inc Landfill Well: SIMW-4, 4D
Personnel: B. Danich
Date: 6-23-14 Time: 1430
Conditions: Sunny-70
Static Water Level: 35.09 Total Depth Purgin: _____
Purge Method: handbail Volume Purgin: _____

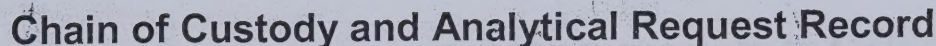
	Volume	Temperature	Conductivity	pH
1.	<u>7</u>	<u>13.6</u>	<u>1442</u>	<u>7.05</u>
2.	<u>7 1/2</u>	<u>9.2</u>	<u>1912</u>	<u>6.95</u>
3.	<u>8</u>	<u>9.1</u>	<u>1944</u>	<u>6.92</u>
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____

Pumping Level: _____ (Borehole Pump)

Recovery (Interval or better):

hl 0 ne 0.10 use 06501 separ 41.6

Comments:



PLEASE PRINT (Provide as much information as possible.)

Company Name: BARRY Damsch Consulting		Project Name, PWS, Permit, Etc. Sanitation Tap closed Landfill		Sample Origin State: MT		EPA/State Compliance: Yes ☒ No ☐	
Report Mail Address (Required): 5531 York Rd Helena, MT 59602 Hand Copy only		Contact Name: Barry Damsch 461-5003		Phone/Fax: 461-5003		Cell: B. Damsch	
Invoice Contact & Phone: Same as above		Purchase Order:		Quote/Bottle Order:			
Invoice Address (Required): Same as above B. Damsch Hand Copy only		Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water		ANALYSIS REQUESTED SEE ATTACHED Standard Turnaround (TAT) R U S H		Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	
Special Report/Formats: ☐ DW ☐ POTW/WWTP ☒ State: MT ☐ Other: DEP Solid waste		Format: ☐ EDD/EDT (Electronic Data) ☐ LEVEL IV ☐ NELAC		Shipped by:		Cooler ID(s):	
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)		Collection Date		Collection Time		Receipt Temp °C	
MATRIX						On Ice: Y N	
1 Smw-2		6-23-14		1230		Custody Seal On Bottle Y N On Cooler Y N	
2 Smw-3		1		1330		Intact Y N	
3 Smw-4		1		1430		Signature Y N	
4 Smw-4b		1		1430		Match	
5 Trip Blank		-		1600			
6							
7							
8							
9							
10							
Custody Record MUST be Signed		Relinquished by (print): Barry Damsch		Date/Time: 6-25-14 1745		Signature: [Signature]	
		Relinquished by (print):		Date/Time:		Signature:	
Sample Disposal:		Return to Client:		Lab Disposal:		Received by Laboratory: Date/Time: Signature:	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

ANALYTICAL SUMMARY REPORT

July 14, 2014

Barry Damschen
5531 York Rd
Helena, MT 59602

Work Order: B14062504 Quote ID: B2789 - Landfill Parameters H815

Project Name: Sanitation Inc Closed Landfill

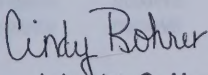
Energy Laboratories Inc Billings MT received the following 5 samples for Barry Damschen on 6/26/2014 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B14062504-001	SIMW-2	06/23/14 12:30	06/26/14	Aqueous	Metals by ICP/ICPMS, Dissolved Cyanide, Total Manual Distillation Chemical Oxygen Demand Conductivity Mercury, Dissolved Anions by Ion Chromatography Nitrogen, Nitrate + Nitrite pH Digestion, Mercury by CVAA 8260-Volatile Organic Comp, 40 CFR Part 258 App I
B14062504-002	SIMW-3	06/23/14 13:30	06/26/14	Aqueous	Same As Above
B14062504-003	SIMW-4	06/23/14 14:30	06/26/14	Aqueous	Same As Above
B14062504-004	SIMW-4D	06/23/14 14:30	06/26/14	Aqueous	Same As Above
B14062504-005	Trip Blank Lot 061614-4151	06/23/14 12:30	06/26/14	Trip Blank	8260-Volatile Organic Comp, 40 CFR Part 258 App I

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By: 
Laboratory Co-Manager

Digitally signed by
Cindy Rohrer
Date: 2014.07.14 08:13:20 -06:00

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-001
Client Sample ID: SIMW-2

Report Date: 07/14/14
Collection Date: 06/23/14 12:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.0	s.u.	H	0.1		A4500-H B	06/26/14 19:45 / cnm
Conductivity @ 25 C	1440	umhos/cm	D	5		A2510 B	06/26/14 19:45 / cnm
INORGANICS							
Chloride	58	mg/L		1		E300.0	06/28/14 00:32 / rbf
Sulfate	218	mg/L	D	2		E300.0	06/28/14 00:32 / rbf
Cyanide, Total	ND	mg/L		0.003		Kelada-01	06/27/14 12:52 / jpv
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	ND	mg/L	D	5		E410.4	07/01/14 14:45 / klc
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	2.55	mg/L		0.01		E353.2	07/01/14 15:21 / klc
METALS, DISSOLVED							
Antimony	ND	mg/L		0.0005		SW6020	06/28/14 03:37 / amn
Arsenic	ND	mg/L		0.001		SW6020	06/28/14 03:37 / amn
Barium	0.027	mg/L		0.003		SW6020	06/28/14 03:37 / amn
Beryllium	ND	mg/L		0.0008		SW6020	06/28/14 03:37 / amn
Cadmium	ND	mg/L		0.00003		SW6020	06/30/14 19:47 / amn
Chromium	ND	mg/L		0.01		SW6020	06/28/14 03:37 / amn
Cobalt	ND	mg/L		0.01		SW6020	06/28/14 03:37 / amn
Copper	0.003	mg/L		0.002		SW6020	06/28/14 03:37 / amn
Iron	ND	mg/L		0.02		SW6010B	07/01/14 23:43 / mas
Lead	ND	mg/L		0.0003		SW6020	06/28/14 03:37 / amn
Mercury	ND	mg/L		5E-06		SW7470A	07/10/14 15:48 / ser
Nickel	0.003	mg/L		0.002		SW6020	06/28/14 03:37 / amn
Selenium	ND	mg/L		0.001		SW6020	06/28/14 03:37 / amn
Silver	ND	mg/L		0.0002		SW6020	07/01/14 20:24 / amn
Thallium	ND	mg/L		0.0002		SW6020	06/28/14 03:37 / amn
Vanadium	ND	mg/L		0.1		SW6020	06/28/14 03:37 / amn
Zinc	0.011	mg/L		0.008		SW6020	06/28/14 03:37 / amn
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/27/14 19:09 / nl
Acrylonitrile	ND	ug/L		3.0		SW8260B	06/27/14 19:09 / nl
Benzene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Bromochloromethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Bromodichloromethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Bromoform	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Bromomethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
Carbon tetrachloride	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Chlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Chlorodibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Chloroethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

D - RL increased due to sample matrix.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-001
Client Sample ID: SIMW-2

Report Date: 07/14/14
Collection Date: 06/23/14 12:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloroform	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Chloromethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
1,2-Dibromoethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Dibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,4-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
Dichlorodifluoromethane	0.22	ug/L	J	0.50		SW8260B	06/27/14 19:09 / nl
1,1-Dichloroethane	0.16	ug/L	J	0.50		SW8260B	06/27/14 19:09 / nl
1,2-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,1-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,2-Dichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 19:09 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 19:09 / nl
Ethylbenzene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
2-Hexanone	ND	ug/L		20		SW8260B	06/27/14 19:09 / nl
Iodomethane	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/27/14 19:09 / nl
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/27/14 19:09 / nl
Methylene chloride	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Styrene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Tetrachloroethene	0.15	ug/L	J	0.50		SW8260B	06/27/14 19:09 / nl
Toluene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,1,1-Trichloroethane	0.56	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Trichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Trichlorofluoromethane	0.16	ug/L	J	0.50		SW8260B	06/27/14 19:09 / nl
1,2,3-Trichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
Vinyl chloride	ND	ug/L		0.40		SW8260B	06/27/14 19:09 / nl
m-p-Xylenes	ND	ug/L		1.0		SW8260B	06/27/14 19:09 / nl
o-Xylene	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Xylenes, Total	ND	ug/L		0.50		SW8260B	06/27/14 19:09 / nl
Surr: 1,2-Dichloroethane-d4	98.0	%REC		70-130		SW8260B	06/27/14 19:09 / nl
Surr: Dibromofluoromethane	114	%REC		77-126		SW8260B	06/27/14 19:09 / nl
Surr: p-Bromofluorobenzene	112	%REC		76-127		SW8260B	06/27/14 19:09 / nl
Surr: Toluene-d8	112	%REC		79-122		SW8260B	06/27/14 19:09 / nl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-002
Client Sample ID: SIMW-3

Report Date: 07/14/14
Collection Date: 06/23/14 13:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.3	s.u.	H	0.1		A4500-H B	06/26/14 19:48 / cnm
Conductivity @ 25 C	1240	umhos/cm	L	5		A2510 B	06/26/14 19:48 / cnm
INORGANICS							
Chloride	39	mg/L		1		E300.0	06/28/14 00:47 / rbf
Sulfate	219	mg/L	D	2		E300.0	06/28/14 00:47 / rbf
Cyanide, Total	ND	mg/L		0.003		Kelada-01	06/27/14 12:55 / jpv
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	6	mg/L	D	5		E410.4	07/01/14 14:45 / klc
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	10.5	mg/L	D	0.06		E353.2	07/01/14 15:22 / klc
METALS, DISSOLVED							
Antimony	ND	mg/L		0.0005		SW6020	06/28/14 03:53 / amn
Arsenic	ND	mg/L		0.001		SW6020	06/28/14 03:53 / amn
Barium	0.009	mg/L		0.003		SW6020	06/28/14 03:53 / amn
Beryllium	ND	mg/L		0.0008		SW6020	06/28/14 03:53 / amn
Cadmium	0.00004	mg/L		0.00003		SW6020	06/30/14 20:03 / amn
Chromium	ND	mg/L		0.01		SW6020	06/28/14 03:53 / amn
Cobalt	ND	mg/L		0.01		SW6020	06/28/14 03:53 / amn
Copper	ND	mg/L		0.002		SW6020	06/30/14 20:03 / amn
Iron	0.80	mg/L		0.02		SW6010B	07/01/14 23:56 / mas
Lead	0.0009	mg/L		0.0003		SW6020	06/28/14 03:53 / amn
Mercury	ND	mg/L		5E-06		SW7470A	07/10/14 15:50 / ser
Nickel	0.003	mg/L		0.002		SW6020	06/28/14 03:53 / amn
Selenium	0.021	mg/L		0.001		SW6020	06/28/14 03:53 / amn
Silver	ND	mg/L		0.0002		SW6020	07/01/14 21:14 / amn
Thallium	ND	mg/L		0.0002		SW6020	06/28/14 03:53 / amn
Vanadium	ND	mg/L		0.1		SW6020	06/28/14 03:53 / amn
Zinc	0.013	mg/L		0.008		SW6020	06/28/14 03:53 / amn
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/27/14 18:40 / nl
Acrylonitrile	ND	ug/L		3.0		SW8260B	06/27/14 18:40 / nl
Benzene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Bromochloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Bromodichloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Bromoform	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Bromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
Carbon tetrachloride	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Chlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Chlorodibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Chloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 D - RL increased due to sample matrix.
 L - Lowest available reporting limit for the analytical method used.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 H - Analysis performed past recommended holding time.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-002
Client Sample ID: SIMW-3

Report Date: 07/14/14
Collection Date: 06/23/14 13:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloroform	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Chloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
1,2-Dibromoethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Dibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,4-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
Dichlorodifluoromethane	0.15	ug/L	J	0.50		SW8260B	06/27/14 18:40 / nl
1,1-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,2-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,1-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,2-Dichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 18:40 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 18:40 / nl
Ethylbenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
2-Hexanone	ND	ug/L		20		SW8260B	06/27/14 18:40 / nl
Iodomethane	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/27/14 18:40 / nl
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/27/14 18:40 / nl
Methylene chloride	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Styrene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Tetrachloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Toluene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,1,1-Trichloroethane	0.29	ug/L	J	0.50		SW8260B	06/27/14 18:40 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Trichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Trichlorofluoromethane	0.67	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
1,2,3-Trichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
Vinyl chloride	ND	ug/L		0.40		SW8260B	06/27/14 18:40 / nl
m-p-Xylenes	ND	ug/L		1.0		SW8260B	06/27/14 18:40 / nl
o-Xylene	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Xylenes, Total	ND	ug/L		0.50		SW8260B	06/27/14 18:40 / nl
Surr: 1,2-Dichloroethane-d4	100	%REC		70-130		SW8260B	06/27/14 18:40 / nl
Surr: Dibromofluoromethane	112	%REC		77-126		SW8260B	06/27/14 18:40 / nl
Surr: p-Bromofluorobenzene	114	%REC		76-127		SW8260B	06/27/14 18:40 / nl
Surr: Toluene-d8	114	%REC		79-122		SW8260B	06/27/14 18:40 / nl

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-003
Client Sample ID: SIMW-4

Report Date: 07/14/14
Collection Date: 06/23/14 14:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.1	s.u.	H	0.1		A4500-H B	06/26/14 19:50 / cnm
Conductivity @ 25 C	1930	umhos/cm	L	5		A2510 B	06/26/14 19:50 / cnm
INORGANICS							
Chloride	149	mg/L		1		E300.0	06/28/14 01:02 / rbf
Sulfate	155	mg/L	D	5		E300.0	06/28/14 01:02 / rbf
Cyanide, Total	ND	mg/L		0.003		Kelada-01	06/27/14 13:08 / jpv
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	40	mg/L	D	5		E410.4	07/01/14 14:45 / klc
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.89	mg/L		0.01		E353.2	07/01/14 15:23 / klc
METALS, DISSOLVED							
Antimony	ND	mg/L		0.0005		SW6020	06/28/14 04:04 / amm
Arsenic	ND	mg/L		0.001		SW6020	06/28/14 04:04 / amm
Barium	0.032	mg/L		0.003		SW6020	06/28/14 04:04 / amm
Beryllium	ND	mg/L		0.0008		SW6020	06/28/14 04:04 / amm
Cadmium	0.00051	mg/L		0.00003		SW6020	06/28/14 04:04 / amm
Chromium	ND	mg/L		0.01		SW6020	06/28/14 04:04 / amm
Cobalt	ND	mg/L		0.01		SW6020	06/28/14 04:04 / amm
Copper	0.002	mg/L		0.002		SW6020	06/28/14 04:04 / amm
Iron	ND	mg/L		0.02		SW6010B	07/01/14 23:59 / mas
Lead	ND	mg/L		0.0003		SW6020	06/28/14 04:04 / amm
Mercury	8.7E-06	mg/L		5E-06		SW7470A	07/11/14 15:16 / ser
Nickel	0.023	mg/L		0.002		SW6020	06/28/14 04:04 / amm
Selenium	0.001	mg/L		0.001		SW6020	06/28/14 04:04 / amm
Silver	ND	mg/L		0.0002		SW6020	06/28/14 04:04 / amm
Thallium	ND	mg/L		0.0002		SW6020	06/28/14 04:04 / amm
Vanadium	ND	mg/L		0.1		SW6020	06/28/14 04:04 / amm
Zinc	0.015	mg/L		0.008		SW6020	06/28/14 04:04 / amm
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/27/14 18:11 / nl
Acrylonitrile	ND	ug/L		3.0		SW8260B	06/27/14 18:11 / nl
Benzene	0.13	ug/L	J	0.50		SW8260B	06/27/14 18:11 / nl
Bromochloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Bromodichloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Bromoform	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Bromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
Carbon tetrachloride	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Chlorobenzene	0.13	ug/L	J	0.50		SW8260B	06/27/14 18:11 / nl
Chlorodibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Chloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.
L - Lowest available reporting limit for the analytical method used.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-003
Client Sample ID: SIMW-4

Report Date: 07/14/14
Collection Date: 06/23/14 14:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloroform	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Chloromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
1,2-Dibromoethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Dibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,4-Dichlorobenzene	0.24	ug/L	J	0.50		SW8260B	06/27/14 18:11 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
Dichlorodifluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,2-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,2-Dichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 18:11 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 18:11 / nl
Ethylbenzene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
2-Hexanone	ND	ug/L		20		SW8260B	06/27/14 18:11 / nl
Iodomethane	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/27/14 18:11 / nl
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/27/14 18:11 / nl
Methylene chloride	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Styrene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Tetrachloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Toluene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1,1-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Trichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Trichlorofluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
1,2,3-Trichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
Vinyl chloride	ND	ug/L		0.40		SW8260B	06/27/14 18:11 / nl
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/27/14 18:11 / nl
o-Xylene	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Xylenes, Total	ND	ug/L		0.50		SW8260B	06/27/14 18:11 / nl
Surr: 1,2-Dichloroethane-d4	95.0	%REC		70-130		SW8260B	06/27/14 18:11 / nl
Surr: Dibromofluoromethane	112	%REC		77-126		SW8260B	06/27/14 18:11 / nl
Surr: p-Bromofluorobenzene	109	%REC		76-127		SW8260B	06/27/14 18:11 / nl
Surr: Toluene-d8	114	%REC		79-122		SW8260B	06/27/14 18:11 / nl

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-004
Client Sample ID: SIMW-4D

Report Date: 07/14/14
Collection Date: 06/23/14 14:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL PROPERTIES							
pH	7.1	s.u.	H	0.1		A4500-H B	06/26/14 19:53 / cnm
Conductivity @ 25 C	1930	umhos/cm	L	5		A2510 B	06/26/14 19:53 / cnm
INORGANICS							
Chloride	153	mg/L		1		E300.0	06/28/14 01:17 / rbf
Sulfate	158	mg/L	D	5		E300.0	06/28/14 01:17 / rbf
Cyanide, Total	ND	mg/L		0.003		Kelada-01	06/27/14 13:17 / jpv
AGGREGATE ORGANICS							
Oxygen Demand, Chemical (COD)	39	mg/L	D	5		E410.4	07/01/14 14:45 / klc
NUTRIENTS							
Nitrogen, Nitrate+Nitrite as N	0.87	mg/L		0.01		E353.2	07/01/14 15:24 / klc
METALS, DISSOLVED							
Antimony	ND	mg/L		0.0005		SW6020	06/28/14 04:06 / amm
Arsenic	ND	mg/L		0.001		SW6020	06/28/14 04:06 / amm
Barium	0.033	mg/L		0.003		SW6020	06/28/14 04:06 / amm
Beryllium	ND	mg/L		0.0008		SW6020	06/28/14 04:06 / amm
Cadmium	0.00052	mg/L		0.00003		SW6020	06/28/14 04:06 / amm
Chromium	ND	mg/L		0.01		SW6020	06/28/14 04:06 / amm
Cobalt	ND	mg/L		0.01		SW6020	06/28/14 04:06 / amm
Copper	0.003	mg/L		0.002		SW6020	06/28/14 04:06 / amm
Iron	ND	mg/L		0.02		SW6010B	07/02/14 00:03 / mas
Lead	ND	mg/L		0.0003		SW6020	06/28/14 04:06 / amm
Mercury	0.0000112	mg/L		5E-06		SW7470A	07/11/14 15:28 / ser
Nickel	0.024	mg/L		0.002		SW6020	06/28/14 04:06 / amm
Selenium	0.001	mg/L		0.001		SW6020	06/28/14 04:06 / amm
Silver	ND	mg/L		0.0002		SW6020	06/28/14 04:06 / amm
Thallium	ND	mg/L		0.0002		SW6020	06/28/14 04:06 / amm
Vanadium	ND	mg/L		0.1		SW6020	06/28/14 04:06 / amm
Zinc	0.015	mg/L		0.008		SW6020	06/28/14 04:06 / amm
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/27/14 17:42 / nl
Acrylonitrile	ND	ug/L		3.0		SW8260B	06/27/14 17:42 / nl
Benzene	0.13	ug/L	J	0.50		SW8260B	06/27/14 17:42 / nl
Bromochloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Bromodichloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Bromoform	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Bromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
Carbon tetrachloride	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Chlorobenzene	0.14	ug/L	J	0.50		SW8260B	06/27/14 17:42 / nl
Chlorodibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Chloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.
D - RL increased due to sample matrix.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.
H - Analysis performed past recommended holding time.
L - Lowest available reporting limit for the analytical method used.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-004
Client Sample ID: SIMW-4D

Report Date: 07/14/14
Collection Date: 06/23/14 14:30
Date Received: 06/26/14
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Chloroform	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Chloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
1,2-Dibromoethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Dibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,4-Dichlorobenzene	0.25	ug/L	J	0.50		SW8260B	06/27/14 17:42 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
Dichlorodifluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,2-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,2-Dichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 17:42 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 17:42 / nl
Ethylbenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
2-Hexanone	ND	ug/L		20		SW8260B	06/27/14 17:42 / nl
Iodomethane	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/27/14 17:42 / nl
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/27/14 17:42 / nl
Methylene chloride	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Styrene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Tetrachloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Toluene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1,1-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Trichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Trichlorofluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
1,2,3-Trichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
Vinyl chloride	ND	ug/L		0.40		SW8260B	06/27/14 17:42 / nl
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/27/14 17:42 / nl
o-Xylene	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Xylenes, Total	ND	ug/L		0.50		SW8260B	06/27/14 17:42 / nl
Surr: 1,2-Dichloroethane-d4	96.0	%REC		70-130		SW8260B	06/27/14 17:42 / nl
Surr: Dibromofluoromethane	108	%REC		77-126		SW8260B	06/27/14 17:42 / nl
Surr: p-Bromofluorobenzene	106	%REC		76-127		SW8260B	06/27/14 17:42 / nl
Surr: Toluene-d8	113	%REC		79-122		SW8260B	06/27/14 17:42 / nl

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
J - Estimated value. The analyte was present but less than the reporting limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-005
Client Sample ID: Trip Blank Lot 061614-4151

Report Date: 07/14/14
Collection Date: 06/23/14 12:30
Date Received: 06/26/14
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
Acetone	ND	ug/L		20		SW8260B	06/27/14 17:13 / nl
Acrylonitrile	ND	ug/L		3.0		SW8260B	06/27/14 17:13 / nl
Benzene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Bromochloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Bromodichloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Bromoform	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Bromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Carbon disulfide	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
Carbon tetrachloride	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Chlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Chlorodibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Chloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Chloroform	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Chloromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,2-Dibromo-3-chloropropane	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
1,2-Dibromoethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Dibromomethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,2-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,4-Dichlorobenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
trans-1,4-Dichloro-2-butene	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
Dichlorodifluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,2-Dichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
cis-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
trans-1,2-Dichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,2-Dichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
cis-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 17:13 / nl
trans-1,3-Dichloropropene	ND	ug/L		0.30		SW8260B	06/27/14 17:13 / nl
Ethylbenzene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
2-Hexanone	ND	ug/L		20		SW8260B	06/27/14 17:13 / nl
Iodomethane	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
Methyl ethyl ketone	ND	ug/L		20		SW8260B	06/27/14 17:13 / nl
Methyl isobutyl ketone	ND	ug/L		20		SW8260B	06/27/14 17:13 / nl
Methylene chloride	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Styrene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1,1,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1,2,2-Tetrachloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Tetrachloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Toluene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1,1-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
1,1,2-Trichloroethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Trichloroethene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Trichlorofluoromethane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl

Report RL - Analyte reporting limit.
Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill
Lab ID: B14062504-005
Client Sample ID: Trip Blank Lot 061614-4151

Report Date: 07/14/14
Collection Date: 06/23/14 12:30
Date Received: 06/26/14
Matrix: Trip Blank

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
VOLATILE ORGANIC COMPOUNDS							
1,2,3-Trichloropropane	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Vinyl acetate	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
Vinyl chloride	ND	ug/L		0.40		SW8260B	06/27/14 17:13 / nl
m+p-Xylenes	ND	ug/L		1.0		SW8260B	06/27/14 17:13 / nl
o-Xylene	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Xylenes, Total	ND	ug/L		0.50		SW8260B	06/27/14 17:13 / nl
Surr: 1,2-Dichloroethane-d4	97.0	%REC		70-130		SW8260B	06/27/14 17:13 / nl
Surr: Dibromofluoromethane	110	%REC		77-126		SW8260B	06/27/14 17:13 / nl
Surr: p-Bromofluorobenzene	101	%REC		76-127		SW8260B	06/27/14 17:13 / nl
Surr: Toluene-d8	116	%REC		79-122		SW8260B	06/27/14 17:13 / nl

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Analytical Run: PHSC_101-B_140626A										
Method: A2510 B										Batch: R226141
Lab ID: SC 150		Continuing Calibration Verification Standard								
Conductivity @ 25 C		153	umhos/cm	5.0	102	90	110			06/26/14 09:21
Lab ID: SC 5000		Continuing Calibration Verification Standard								
Conductivity @ 25 C		4990	umhos/cm	5.0	100	90	110			06/26/14 09:23
Lab ID: CCV - SC 1413		Continuing Calibration Verification Standard								
Conductivity @ 25 C		1420	umhos/cm	5.0	101	90	110			06/26/14 19:01
Method: A2510 B										Batch: R226141
Lab ID: SC 20000		Continuing Calibration Verification Standard				Run: PHSC_101-B_140626A				06/26/14 09:26
Conductivity @ 25 C		20000	umhos/cm	5.0	100	90	110			
Lab ID: SC 2nd 1413		Laboratory Control Sample				Run: PHSC_101-B_140626A				06/26/14 09:29
Conductivity @ 25 C		1370	umhos/cm	5.0	97	90	110			
Lab ID: MBLK		Method Blank				Run: PHSC_101-B_140626A				06/26/14 10:01
Conductivity @ 25 C		3	umhos/cm							
Lab ID: B14061212-002ADUP		Sample Duplicate				Run: PHSC_101-B_140626A				06/26/14 10:06
Conductivity @ 25 C		1480	umhos/cm	5.0				0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										Analytical Run: PHSC_101-B_140626A
Lab ID: pH 8										Initial Calibration Verification Standard
pH		7.94	s.u.	0.10	99	98	102			06/26/14 09:18
Lab ID: CCV - pH 7										Continuing Calibration Verification Standard
pH		6.99	s.u.	0.10	100	98	102			06/26/14 18:58

Method: A4500-H B										Batch: R226141
Lab ID: B14062396-002ADUP										Sample Duplicate
pH		8.44	s.u.	0.10				0.1		Run: PHSC_101-B_140626A
										06/26/14 11:09

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Analytical Run: IC202-B_140627A
Lab ID: ICV	2	Initial Calibration Verification Standard								06/27/14 18:44
Chloride		25.1	mg/L	1.0	100	90	110			
Sulfate		100	mg/L	1.0	100	90	110			
Method: E300.0										Batch: R226327
Lab ID: ICB	2	Method Blank								Run: IC202-B_140627A 06/27/14 18:59
Chloride		ND	mg/L	0.06						
Sulfate		ND	mg/L	0.2						
Lab ID: LFB	2	Laboratory Fortified Blank								Run: IC202-B_140627A 06/27/14 19:14
Chloride		25.4	mg/L	1.0	101	90	110			
Sulfate		100	mg/L	1.1	100	90	110			
Lab ID: B14062485-008AMS	2	Sample Matrix Spike								Run: IC202-B_140627A 06/27/14 23:31
Chloride		191	mg/L	1.3	104	90	110			
Sulfate		1210	mg/L	5.3	102	90	110			
Lab ID: B14062485-008AMSD	2	Sample Matrix Spike Duplicate								Run: IC202-B_140627A 06/27/14 23:46
Chloride		188	mg/L	1.3	102	90	110	1.3	20	
Sulfate		1210	mg/L	5.3	101	90	110	0.4	20	
Lab ID: B14062520-004AMS	2	Sample Matrix Spike								Run: IC202-B_140627A 06/28/14 03:03
Chloride		27.6	mg/L	1.0	105	90	110			
Sulfate		108	mg/L	1.1	105	90	110			
Lab ID: B14062520-004AMSD	2	Sample Matrix Spike Duplicate								Run: IC202-B_140627A 06/28/14 03:18
Chloride		27.4	mg/L	1.0	104	90	110	0.9	20	
Sulfate		107	mg/L	1.1	104	90	110	1.2	20	

Qualifiers:

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ND - Not detected at the reporting limit.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Analytical Run: FIA203-B_140701A		
Lab ID: ICV		Initial Calibration Verification Standard								07/01/14 13:47
Nitrogen, Nitrate+Nitrite as N		15.6	mg/L	0.060	108	90	110			
Method: E353.2										Batch: R226430
Lab ID: MBLK		Method Blank								Run: FIA203-B_140701A 07/01/14 13:48
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.004						
Lab ID: LFB		Laboratory Fortified Blank								Run: FIA203-B_140701A 07/01/14 13:49
Nitrogen, Nitrate+Nitrite as N		1.07	mg/L	0.010	107	90	110			
Lab ID: B14062498-001AMS		Sample Matrix Spike								Run: FIA203-B_140701A 07/01/14 15:18
Nitrogen, Nitrate+Nitrite as N		2.00	mg/L	0.010	111	90	110			S
Lab ID: B14062498-001AMSD		Sample Matrix Spike Duplicate								Run: FIA203-B_140701A 07/01/14 15:19
Nitrogen, Nitrate+Nitrite as N		2.03	mg/L	0.010	114	90	110	1.4	10	S

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6010B										Analytical Run: ICP201-B_140701A
Lab ID: QCS		Initial Calibration Verification Standard								07/01/14 13:27
Iron		3.97	mg/L	0.030	99	90	110			
Lab ID: ICSA		Interference Check Sample A								07/01/14 13:40
Iron		166	mg/L	0.030	83	80	120			
Lab ID: ICSAB		Interference Check Sample AB								07/01/14 13:43
Iron		170	mg/L	0.030	85	80	120			
Method: SW6010B										Batch: R226419
Lab ID: MB-IRISDIS140701A		Method Blank								Run: ICP201-B_140701A 07/01/14 13:53
Iron		0.004	mg/L	0.002						
Lab ID: LFB-IRISDIS140701A		Laboratory Fortified Blank								Run: ICP201-B_140701A 07/01/14 13:56
Iron		5.30	mg/L	0.030	106	80	120			
Lab ID: B14062385-001BDIL		Serial Dilution								Run: ICP201-B_140701A 07/01/14 22:04
Iron		ND	mg/L	0.030		0	0			10
Lab ID: B14062504-001BDIL		Serial Dilution								Run: ICP201-B_140701A 07/01/14 23:46
Iron		0.131	mg/L	0.030		0	0			10 N
Lab ID: B14062504-001BMS2		Sample Matrix Spike								Run: ICP201-B_140701A 07/01/14 23:49
Iron		11.1	mg/L	0.030	111	75	125			
Lab ID: B14062504-001BMSD		Sample Matrix Spike Duplicate								Run: ICP201-B_140701A 07/01/14 23:53
Iron		11.5	mg/L	0.030	115	75	125	4.1		20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020		Analytical Run: ICPMS202-B_140627A								
Lab ID: QCS	15	Initial Calibration Verification Standard							06/27/14 08:22	
Antimony		0.0504	mg/L	0.0010	101	90	110			
Arsenic		0.0518	mg/L	0.0010	104	90	110			
Barium		0.0508	mg/L	0.0010	102	90	110			
Beryllium		0.0243	mg/L	0.0010	97	90	110			
Cadmium		0.0261	mg/L	0.0010	104	90	110			
Chromium		0.0497	mg/L	0.0010	99	90	110			
Cobalt		0.0504	mg/L	0.0010	101	90	110			
Copper		0.0528	mg/L	0.0010	106	90	110			
Lead		0.0484	mg/L	0.0010	97	90	110			
Nickel		0.0518	mg/L	0.0010	104	90	110			
Selenium		0.0522	mg/L	0.0010	104	90	110			
Silver		0.0251	mg/L	0.0010	100	90	110			
Thallium		0.0478	mg/L	0.0010	96	90	110			
Vanadium		0.0482	mg/L	0.0010	96	90	110			
Zinc		0.0540	mg/L	0.0010	108	90	110			
Lab ID: ICSA	15	Interference Check Sample A							06/27/14 08:28	
Antimony		0.00122	mg/L	0.0010						
Arsenic		0.000250	mg/L	0.0010						
Barium		0.000320	mg/L	0.0010						
Beryllium		7.00E-05	mg/L	0.0010						
Cadmium		0.000570	mg/L	0.0010						
Chromium		0.00137	mg/L	0.0010						
Cobalt		0.000280	mg/L	0.0010						
Copper		0.00185	mg/L	0.0010						
Lead		0.000710	mg/L	0.0010						
Nickel		0.00207	mg/L	0.0010						
Selenium		0.000810	mg/L	0.0010						
Silver		0.000450	mg/L	0.0010						
Thallium		0.000140	mg/L	0.0010						
Vanadium		0.000140	mg/L	0.0010						
Zinc		0.00362	mg/L	0.0010						
Lab ID: ICSAB	15	Interference Check Sample AB							06/27/14 08:30	
Antimony		0.000590	mg/L	0.0010		0	0			
Arsenic		0.0109	mg/L	0.0010	109	70	130			
Barium		0.000200	mg/L	0.0010		0	0			
Beryllium		1.00E-05	mg/L	0.0010		0	0			
Cadmium		0.0108	mg/L	0.0010	108	70	130			
Chromium		0.0217	mg/L	0.0010	109	70	130			
Cobalt		0.0206	mg/L	0.0010	103	70	130			
Copper		0.0222	mg/L	0.0010	111	70	130			
Lead		0.000300	mg/L	0.0010		0	0			
Nickel		0.0228	mg/L	0.0010	114	70	130			
Selenium		0.0101	mg/L	0.0010	101	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										
Analytical Run: ICPMS202-B_140627A										
Lab ID: ICSAB	15 Interference Check Sample AB									06/27/14 08:30
Silver		0.0204	mg/L	0.0010	102	70	130			
Thallium		2.00E-05	mg/L	0.0010		0	0			
Vanadium		0.0199	mg/L	0.0010	100	70	130			
Zinc		0.0130	mg/L	0.0010	130	70	130			
Method: SW6020										
Batch: R226236										
Lab ID: B14062385-001BDIL	15 Serial Dilution									06/28/14 01:26
Run: ICPMS202-B_140627A										
Antimony		0.000200	mg/L	0.0010		0	0		10	N
Arsenic		ND	mg/L	0.0010		0	0		10	
Barium		0.0769	mg/L	0.050		0	0	3.8	10	
Beryllium		ND	mg/L	0.0010		0	0		10	
Cadmium		ND	mg/L	0.0010		0	0		10	
Chromium		0.00305	mg/L	0.0050		0	0		10	N
Cobalt		0.000100	mg/L	0.0050		0	0		10	N
Copper		0.000750	mg/L	0.0050		0	0		10	N
Lead		0.000100	mg/L	0.0010		0	0		10	N
Nickel		ND	mg/L	0.0050		0	0		10	
Selenium		ND	mg/L	0.0015		0	0		10	
Silver		ND	mg/L	0.0010		0	0		10	
Thallium		ND	mg/L	0.00050		0	0		10	
Vanadium		0.000900	mg/L	0.010		0	0		10	N
Zinc		0.0101	mg/L	0.010		0	0		10	N
Lab ID: B14062504-001BDIL	15 Serial Dilution									06/28/14 03:40
Run: ICPMS202-B_140627A										
Antimony		ND	mg/L	0.0010		0	0		10	
Arsenic		0.000300	mg/L	0.0010		0	0		10	N
Barium		0.0276	mg/L	0.050		0	0		10	
Beryllium		ND	mg/L	0.0010		0	0		10	
Cadmium		ND	mg/L	0.0010		0	0		10	
Chromium		0.00165	mg/L	0.0050		0	0		10	N
Cobalt		0.000300	mg/L	0.0050		0	0		10	N
Copper		0.00340	mg/L	0.0050		0	0		10	
Lead		0.000100	mg/L	0.0010		0	0		10	N
Nickel		0.00330	mg/L	0.0050		0	0		10	
Selenium		ND	mg/L	0.0015		0	0		10	
Silver		ND	mg/L	0.0010		0	0		10	
Thallium		ND	mg/L	0.00050		0	0		10	
Vanadium		0.000250	mg/L	0.010		0	0		10	N
Zinc		0.0143	mg/L	0.010		0	0		10	N
Lab ID: B14062504-001BMS	15 Sample Matrix Spike									06/28/14 03:43
Run: ICPMS202-B_140627A										
Antimony		0.0491	mg/L	0.0010	98	75	125			
Arsenic		0.0505	mg/L	0.0010	100	75	125			
Barium		0.0760	mg/L	0.050	97	75	125			
Beryllium		0.0478	mg/L	0.0010	96	75	125			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: R226236
Lab ID: B14062504-001BMS	15	Sample Matrix Spike			Run: ICPMS202-B_140627A					06/28/14 03:43
Cadmium		0.0474	mg/L	0.0010	95	75	125			
Chromium		0.0483	mg/L	0.0050	96	75	125			
Cobalt		0.0457	mg/L	0.0050	91	75	125			
Copper		0.0479	mg/L	0.0050	90	75	125			
Lead		0.0469	mg/L	0.0010	94	75	125			
Nickel		0.0488	mg/L	0.0050	91	75	125			
Selenium		0.0515	mg/L	0.0010	101	75	125			
Silver		0.0157	mg/L	0.0010	79	75	125			
Thallium		0.0469	mg/L	0.00050	94	75	125			
Vanadium		0.0463	mg/L	0.010	91	75	125			
Zinc		0.0549	mg/L	0.010	88	75	125			
Lab ID: B14062504-001BMSD	15	Sample Matrix Spike Duplicate			Run: ICPMS202-B_140627A					06/28/14 03:45
Antimony		0.0514	mg/L	0.0010	103	75	125	4.6	20	
Arsenic		0.0529	mg/L	0.0010	105	75	125	4.6	20	
Barium		0.0779	mg/L	0.050	101	75	125	2.5	20	
Beryllium		0.0501	mg/L	0.0010	100	75	125	4.7	20	
Cadmium		0.0495	mg/L	0.0010	99	75	125	4.4	20	
Chromium		0.0508	mg/L	0.0050	101	75	125	5.0	20	
Cobalt		0.0479	mg/L	0.0050	95	75	125	4.8	20	
Copper		0.0503	mg/L	0.0050	95	75	125	4.9	20	
Lead		0.0500	mg/L	0.0010	100	75	125	6.5	20	
Nickel		0.0508	mg/L	0.0050	95	75	125	4.1	20	
Selenium		0.0551	mg/L	0.0010	108	75	125	6.8	20	
Silver		0.0184	mg/L	0.0010	92	75	125	16	20	
Thallium		0.0495	mg/L	0.00050	99	75	125	5.3	20	
Vanadium		0.0491	mg/L	0.010	97	75	125	6.0	20	
Zinc		0.0579	mg/L	0.010	94	75	125	5.3	20	
Lab ID: LFB	15	Laboratory Fortified Blank			Run: ICPMS202-B_140627A					06/27/14 09:52
Antimony		0.0449	mg/L	0.0010	90	85	115			
Arsenic		0.0484	mg/L	0.0010	97	85	115			
Barium		0.0500	mg/L	0.0010	100	85	115			
Beryllium		0.0452	mg/L	0.0010	90	85	115			
Cadmium		0.0504	mg/L	0.0010	101	85	115			
Chromium		0.0487	mg/L	0.0010	97	85	115			
Cobalt		0.0506	mg/L	0.0010	101	85	115			
Copper		0.0538	mg/L	0.0010	108	85	115			
Lead		0.0472	mg/L	0.0010	94	85	115			
Nickel		0.0533	mg/L	0.0010	107	85	115			
Selenium		0.0490	mg/L	0.0010	98	85	115			
Silver		0.0189	mg/L	0.0010	94	85	115			
Thallium		0.0462	mg/L	0.0010	92	85	115			
Vanadium		0.0462	mg/L	0.0010	92	85	115			
Zinc		0.0526	mg/L	0.0010	105	85	115			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Batch: R226236
Lab ID: LFB	15	Laboratory Fortified Blank			Run: ICPMS202-B_140627A				06/27/14 09:52	
Lab ID: LRB	15	Method Blank			Run: ICPMS202-B_140627A				06/27/14 10:03	
Antimony		ND	mg/L	1E-05						
Arsenic		ND	mg/L	6E-05						
Barium		ND	mg/L	4E-05						
Beryllium		ND	mg/L	1E-05						
Cadmium		ND	mg/L	1E-05						
Chromium		ND	mg/L	3E-05						
Cobalt		ND	mg/L	1E-05						
Copper		ND	mg/L	5E-05						
Lead		ND	mg/L	1E-05						
Nickel		ND	mg/L	6E-05						
Selenium		ND	mg/L	0.0003						
Silver		ND	mg/L	3E-05						
Thallium		ND	mg/L	1E-05						
Vanadium		ND	mg/L	3E-05						
Zinc		ND	mg/L	0.0002						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020 Analytical Run: ICPMS202-B_140630A										
Lab ID: QCS		Initial Calibration Verification Standard								06/30/14 10:23
Cadmium		0.0260	mg/L	0.0010	104	90	110			
Lab ID: ICSA		Interference Check Sample A								06/30/14 10:31
Cadmium		0.000550	mg/L	0.0010						
Lab ID: ICSAB		Interference Check Sample AB								06/30/14 10:34
Cadmium		0.0105	mg/L	0.0010	105	70	130			
Method: SW6020 Batch: R226338										
Lab ID: LFB		Laboratory Fortified Blank				Run: ICPMS202-B_140630A				06/30/14 10:29
Cadmium		0.0487	mg/L	0.0010	97	85	115			
Lab ID: LRB		Method Blank				Run: ICPMS202-B_140630A				06/30/14 10:46
Cadmium		ND	mg/L	1E-05						
Lab ID: B14062385-001BDIL		Serial Dilution				Run: ICPMS202-B_140630A				06/30/14 18:10
Cadmium		ND	mg/L	0.0010		0	0			10
Lab ID: B14062504-001BDIL		Serial Dilution				Run: ICPMS202-B_140630A				06/30/14 19:50
Cadmium		ND	mg/L	0.0010		0	0			10
Lab ID: B14062504-001BMS		Sample Matrix Spike				Run: ICPMS202-B_140630A				06/30/14 19:52
Cadmium		0.0481	mg/L	0.0010	96	75	125			
Lab ID: B14062504-001BMSD		Sample Matrix Spike Duplicate				Run: ICPMS202-B_140630A				06/30/14 19:55
Cadmium		0.0494	mg/L	0.0010	99	75	125	2.7		20
Lab ID: B14062324-005APDS1		Post Digestion/Distillation Spike				Run: ICPMS202-B_140630A				07/01/14 02:00
Cadmium		2.53	mg/kg	1.0	2	75	125			S
Lab ID: B14062324-005AMS3		Sample Matrix Spike				Run: ICPMS202-B_140630A				07/01/14 02:03
Cadmium		34.8	mg/kg	1.0	83	75	125			
Lab ID: B14062324-005AMSD		Sample Matrix Spike Duplicate				Run: ICPMS202-B_140630A				07/01/14 02:05
Cadmium		41.3	mg/kg	1.0	103	75	125	17		20

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/14/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW6020										Analytical Run: ICPMS203-B_140701A
Lab ID: QCS	Initial Calibration Verification Standard									07/01/14 14:03
Silver		0.0248	mg/L	0.0010	99	90	110			
Lab ID: ICSA	Interference Check Sample A									07/01/14 14:14
Silver		0.000149	mg/L	0.0010						
Lab ID: ICSAB	Interference Check Sample AB									07/01/14 14:25
Silver		0.0191	mg/L	0.0010	96	70	130			
Method: SW6020										Batch: R226433
Lab ID: B14062385-001BDIL	Serial Dilution									Run: ICPMS203-B_140701A 07/01/14 16:59
Silver		ND	mg/L	0.0010		0	0			10
Lab ID: B14062504-001BDIL	Serial Dilution									Run: ICPMS203-B_140701A 07/01/14 20:30
Silver		ND	mg/L	0.0010		0	0			10
Lab ID: B14062504-001BMS	Sample Matrix Spike									Run: ICPMS203-B_140701A 07/01/14 20:35
Silver		0.0153	mg/L	0.0010	76	75	125			
Lab ID: B14062504-001BMSD	Sample Matrix Spike Duplicate									Run: ICPMS203-B_140701A 07/01/14 20:41
Silver		0.0149	mg/L	0.0010	74	75	125	2.5	20	S
Lab ID: LFB	Laboratory Fortified Blank									Run: ICPMS203-B_140701A 07/01/14 14:19
Silver		0.0190	mg/L	0.0010	95	85	115			
Lab ID: LRB	Method Blank									Run: ICPMS203-B_140701A 07/01/14 14:53
Silver		ND	mg/L	2E-05						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen
Project: Sanitation Inc Closed Landfill

Report Date: 07/14/14
Work Order: B14062504

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW7470A Analytical Run: HGCV203-B_140710A										
Lab ID: QCS		Initial Calibration Verification Standard 07/10/14 15:33								
Mercury		0.000210	mg/L	1.0E-05	105	90	110			
Method: SW7470A Batch: 81188										
Lab ID: MB-81188		Method Blank Run: HGCV203-B_140710A 07/10/14 15:43								
Mercury		ND	mg/L	5.0E-06						
Lab ID: LCS-81188		Laboratory Control Sample Run: HGCV203-B_140710A 07/10/14 15:46								
Mercury		0.000206	mg/L	1.0E-05	103	80	120			
Lab ID: B14062504-002BDIL		Serial Dilution Run: HGCV203-B_140710A 07/10/14 15:53								
Mercury		ND	mg/L	2.5E-05		0	0		10	
Lab ID: B14062504-002BMS		Sample Matrix Spike Run: HGCV203-B_140710A 07/10/14 15:55								
Mercury		0.000214	mg/L	1.0E-05	105	75	125			
Lab ID: B14062504-002BMSD		Sample Matrix Spike Duplicate Run: HGCV203-B_140710A 07/10/14 15:57								
Mercury		0.000215	mg/L	1.0E-05	106	75	125	0.5	20	
Method: SW7470A Analytical Run: HGCV203-B_140711A										
Lab ID: QCS		Initial Calibration Verification Standard 07/11/14 14:59								
Mercury		0.000202	mg/L	1.0E-05	101	90	110			
Method: SW7470A Batch: 81264										
Lab ID: MB-81264		Method Blank Run: HGCV203-B_140711A 07/11/14 15:09								
Mercury		1.60E-06	mg/L	5.0E-06						
Lab ID: LCS-81264		Laboratory Control Sample Run: HGCV203-B_140711A 07/11/14 15:12								
Mercury		0.000209	mg/L	1.0E-05	104	80	120			
Lab ID: B14062504-003BDIL		Serial Dilution Run: HGCV203-B_140711A 07/11/14 15:18								
Mercury		1.63E-05	mg/L	2.5E-05		0	0		10	
Lab ID: B14062504-003BMS		Sample Matrix Spike Run: HGCV203-B_140711A 07/11/14 15:21								
Mercury		0.000201	mg/L	1.0E-05	96	75	125			
Lab ID: B14062504-003BMSD		Sample Matrix Spike Duplicate Run: HGCV203-B_140711A 07/11/14 15:23								
Mercury		0.000201	mg/L	1.0E-05	96	75	125	0.0	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Project: Sanitation Inc Closed Landfill

Report Date: 07/11/14

Work Order: B14062504

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: R226298		
Lab ID: LCS_062714	Laboratory Control Sample					Run: SV5972.I_140627A	06/27/14 10:59		
Acetone	34.6	ug/L	20	69	62	130			
Acrylonitrile	37.0	ug/L	20	74	60	130			
Benzene	4.56	ug/L	1.0	91	71	133			
Bromochloromethane	5.52	ug/L	1.0	110	68	131			
Bromodichloromethane	4.96	ug/L	1.0	99	67	138			
Bromoform	5.48	ug/L	1.0	110	64	136			
Bromomethane	6.20	ug/L	1.0	124	60	138			
Carbon disulfide	4.92	ug/L	1.0	98	46	145			
Carbon tetrachloride	5.84	ug/L	1.0	117	61	144			
Chlorobenzene	4.96	ug/L	1.0	99	78	136			
Chlorodibromomethane	5.32	ug/L	1.0	106	72	136			
Chloroethane	4.48	ug/L	1.0	90	64	136			
Chloroform	5.00	ug/L	1.0	100	69	133			
Chloromethane	4.48	ug/L	1.0	90	63	149			
1,2-Dibromo-3-chloropropane	4.20	ug/L	1.0	84	63	125			
1,2-Dibromoethane	4.92	ug/L	1.0	98	75	131			
Dibromomethane	5.12	ug/L	1.0	102	72	133			
1,2-Dichlorobenzene	5.00	ug/L	1.0	100	78	129			
1,4-Dichlorobenzene	5.20	ug/L	1.0	104	78	131			
trans-1,4-Dichloro-2-butene	2.82	ug/L	1.0	56	50	142			
Dichlorodifluoromethane	5.08	ug/L	1.0	102	55	141			
1,1-Dichloroethane	4.60	ug/L	1.0	92	72	130			
1,2-Dichloroethane	4.48	ug/L	1.0	90	57	146			
1,1-Dichloroethene	4.56	ug/L	1.0	91	66	142			
cis-1,2-Dichloroethene	4.76	ug/L	1.0	95	74	133			
trans-1,2-Dichloroethene	4.96	ug/L	1.0	99	76	138			
1,2-Dichloropropane	4.24	ug/L	1.0	85	72	135			
cis-1,3-Dichloropropene	4.20	ug/L	1.0	84	75	132			
trans-1,3-Dichloropropene	4.60	ug/L	1.0	92	77	145			
Ethylbenzene	5.24	ug/L	1.0	105	78	131			
2-Hexanone	41.2	ug/L	20	82	72	131			
Iodomethane	3.94	ug/L	1.0	79	66	132			
Methyl ethyl ketone	35.1	ug/L	20	70	55	145			
Methyl isobutyl ketone	41.2	ug/L	20	82	73	129			
Methylene chloride	3.94	ug/L	1.0	79	73	126			
Styrene	5.52	ug/L	1.0	110	76	134			
1,1,1,2-Tetrachloroethane	5.64	ug/L	1.0	113	75	135			
1,1,2,2-Tetrachloroethane	4.44	ug/L	1.0	89	72	132			
Tetrachloroethene	6.28	ug/L	1.0	126	78	137			
Toluene	5.20	ug/L	1.0	104	78	134			
1,1,1-Trichloroethane	5.32	ug/L	1.0	106	64	141			
1,1,2-Trichloroethane	4.88	ug/L	1.0	98	72	133			
Trichloroethene	4.80	ug/L	1.0	96	75	138			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/11/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: R226298		
Lab ID: LCS_062714	Laboratory Control Sample				Run: SV5972.I_140627A		06/27/14 10:59		
Trichlorofluoromethane	5.52	ug/L	1.0	110	58	139			
1,2,3-Trichloropropane	4.48	ug/L	1.0	90	67	133			
Vinyl acetate	3.70	ug/L	1.0	74	31	124			
Vinyl chloride	4.64	ug/L	1.0	93	66	140			
m+p-Xylenes	11.0	ug/L	1.0	110	78	133			
o-Xylene	5.28	ug/L	1.0	106	79	136			
Surr: 1,2-Dichloroethane-d4			1.0	101	70	130			
Surr: Dibromofluoromethane			1.0	112	77	126			
Surr: p-Bromofluorobenzene			1.0	98	76	127			
Surr: Toluene-d8			1.0	112	79	122			
Lab ID: BLK_062714	Method Blank				Run: SV5972.I_140627A		06/27/14 11:56		
Acetone	ND	ug/L	10						
Acrylonitrile	ND	ug/L	3.0						
Benzene	ND	ug/L	0.50						
Bromochloromethane	ND	ug/L	0.50						
Bromodichloromethane	ND	ug/L	0.50						
Bromoform	ND	ug/L	0.50						
Bromomethane	ND	ug/L	0.50						
Carbon disulfide	ND	ug/L	0.50						
Carbon tetrachloride	ND	ug/L	0.50						
Chlorobenzene	ND	ug/L	0.50						
Chlorodibromomethane	ND	ug/L	0.50						
Chloroethane	ND	ug/L	0.50						
Chloroform	ND	ug/L	0.50						
Chloromethane	ND	ug/L	0.50						
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0						
1,2-Dibromoethane	ND	ug/L	0.50						
Dibromomethane	ND	ug/L	0.50						
1,2-Dichlorobenzene	ND	ug/L	0.50						
1,4-Dichlorobenzene	ND	ug/L	0.50						
trans-1,4-Dichloro-2-butene	ND	ug/L	1.0						
Dichlorodifluoromethane	ND	ug/L	0.50						
1,1-Dichloroethane	ND	ug/L	0.50						
1,2-Dichloroethane	ND	ug/L	0.50						
1,1-Dichloroethene	ND	ug/L	0.50						
cis-1,2-Dichloroethene	ND	ug/L	0.50						
trans-1,2-Dichloroethene	ND	ug/L	0.50						
1,2-Dichloropropane	ND	ug/L	0.50						
cis-1,3-Dichloropropene	ND	ug/L	0.30						
trans-1,3-Dichloropropene	ND	ug/L	0.30						
Ethylbenzene	ND	ug/L	0.50						
2-Hexanone	ND	ug/L	10						

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Project: Sanitation Inc Closed Landfill

Report Date: 07/11/14

Work Order: B14062504

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: R226298		
Lab ID: BLK_062714	Method Blank		Run: SV5972.I_140627A				06/27/14 11:56		
Iodomethane	ND	ug/L	1.0						
Methyl ethyl ketone	ND	ug/L	10						
Methyl isobutyl ketone	ND	ug/L	10						
Methylene chloride	ND	ug/L	0.50						
Styrene	ND	ug/L	0.50						
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50						
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50						
Tetrachloroethane	ND	ug/L	0.50						
Toluene	ND	ug/L	0.50						
1,1,1-Trichloroethane	ND	ug/L	0.50						
1,1,2-Trichloroethane	ND	ug/L	0.50						
Trichloroethene	ND	ug/L	0.50						
Trichlorofluoromethane	ND	ug/L	0.50						
1,2,3-Trichloropropane	ND	ug/L	0.50						
Vinyl acetate	ND	ug/L	1.0						
Vinyl chloride	ND	ug/L	0.40						
m+p-Xylenes	ND	ug/L	0.50						
o-Xylene	ND	ug/L	0.50						
Xylenes, Total	ND	ug/L	0.50						
Surr: 1,2-Dichloroethane-d4			1.0	95	70	130			
Surr: Dibromofluoromethane			1.0	110	77	126			
Surr: p-Bromofluorobenzene			1.0	109	76	127			
Surr: Toluene-d8			1.0	116	79	122			
Lab ID: B14062337-001D_MS	Sample Matrix Spike		Run: SV5972.I_140627A				06/27/14 16:15		
Acetone	31.6	ug/L	20	63	62	130			
Acrylonitrile	38.3	ug/L	20	77	60	130			
Benzene	4.56	ug/L	1.0	91	71	133			
Bromochloromethane	5.64	ug/L	1.0	113	68	131			
Bromodichloromethane	4.76	ug/L	1.0	95	67	138			
Bromoform	4.96	ug/L	1.0	99	64	136			
Bromomethane	5.52	ug/L	1.0	110	60	138			
Carbon disulfide	4.72	ug/L	1.0	94	46	145			
Carbon tetrachloride	5.68	ug/L	1.0	114	61	144			
Chlorobenzene	4.80	ug/L	1.0	96	78	136			
Chlorodibromomethane	5.08	ug/L	1.0	102	72	136			
Chloroethane	4.12	ug/L	1.0	82	64	136			
Chloroform	4.92	ug/L	1.0	98	69	133			
Chloromethane	3.98	ug/L	1.0	80	63	149			
1,2-Dibromo-3-chloropropane	3.51	ug/L	1.0	70	63	125			
1,2-Dibromoethane	4.72	ug/L	1.0	94	75	131			
Dibromomethane	5.08	ug/L	1.0	102	72	133			
1,2-Dichlorobenzene	4.40	ug/L	1.0	88	78	129			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Barry Damschen

Report Date: 07/11/14

Project: Sanitation Inc Closed Landfill

Work Order: B14062504

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: SW8260B							Batch: R226298		
Lab ID: B14062337-001D_MS	Sample Matrix Spike		Run: SV5972.I_140627A				06/27/14 16:15		
1,4-Dichlorobenzene	4.56	ug/L	1.0	91	78	131			
trans-1,4-Dichloro-2-butene	2.42	ug/L	1.0	48	50	142			S
Dichlorodifluoromethane	4.76	ug/L	1.0	95	55	141			
1,1-Dichloroethane	4.40	ug/L	1.0	88	72	130			
1,2-Dichloroethane	4.40	ug/L	1.0	88	57	146			
1,1-Dichloroethene	4.36	ug/L	1.0	87	66	142			
cis-1,2-Dichloroethene	4.72	ug/L	1.0	94	74	133			
trans-1,2-Dichloroethene	4.88	ug/L	1.0	98	76	138			
1,2-Dichloropropane	4.28	ug/L	1.0	86	72	135			
cis-1,3-Dichloropropene	3.91	ug/L	1.0	78	75	132			
trans-1,3-Dichloropropene	4.20	ug/L	1.0	84	77	145			
Ethylbenzene	5.00	ug/L	1.0	100	78	131			
2-Hexanone	37.1	ug/L	20	74	72	131			
Iodomethane	3.49	ug/L	1.0	70	66	132			
Methyl ethyl ketone	35.6	ug/L	20	71	55	145			
Methyl isobutyl ketone	38.0	ug/L	20	76	73	129			
Methylene chloride	3.77	ug/L	1.0	75	73	126			
Styrene	5.20	ug/L	1.0	104	76	134			
1,1,1,2-Tetrachloroethane	5.56	ug/L	1.0	111	75	135			
1,1,2,2-Tetrachloroethane	4.20	ug/L	1.0	84	72	132			
Tetrachloroethene	5.96	ug/L	1.0	119	78	137			
Toluene	5.04	ug/L	1.0	101	78	134			
1,1,1-Trichloroethane	5.24	ug/L	1.0	105	64	141			
1,1,2-Trichloroethane	4.80	ug/L	1.0	96	72	133			
Trichloroethene	4.72	ug/L	1.0	94	75	138			
Trichlorofluoromethane	5.12	ug/L	1.0	102	58	139			
1,2,3-Trichloropropane	4.44	ug/L	1.0	89	67	133			
Vinyl acetate	3.33	ug/L	1.0	67	31	124			
Vinyl chloride	4.24	ug/L	1.0	85	66	140			
m+p-Xylenes	10.7	ug/L	1.0	107	78	133			
o-Xylene	5.16	ug/L	1.0	103	79	136			
Surr: 1,2-Dichloroethane-d4			1.0	100	70	130			
Surr: Dibromofluoromethane			1.0	112	77	126			
Surr: p-Bromofluorobenzene			1.0	96	76	127			
Surr: Toluene-d8			1.0	112	79	122			
Lab ID: B14062337-001D_MSD	Sample Matrix Spike Duplicate		Run: SV5972.I_140627A				06/27/14 16:44		
Acetone	35.2	ug/L	20	70	62	130	11	20	
Acrylonitrile	40.4	ug/L	20	81	60	130	5.4	20	
Benzene	4.76	ug/L	1.0	95	71	133	4.3	20	
Bromochloromethane	5.76	ug/L	1.0	115	68	131	2.1	20	
Bromodichloromethane	4.96	ug/L	1.0	99	67	138	4.1	20	
Bromoform	5.24	ug/L	1.0	105	64	136	5.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

S - Spike recovery outside of advisory limits.

Workorder Receipt Checklist

Barry Damschen

B14062504

Login completed by: Randa Nees

Date Received: 6/26/2014

Reviewed by: BL2000\jklir

Received by: mlk

Reviewed Date: 6/27/2014

Carrier Return-UPS
name: Ground

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☒	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☒	No ☐	Not Applicable ☐
Container/Temp Blank temperature:	2.6°C On Ice		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	Not Applicable ☐

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

None

PLEASE PRINT (Provide as much information as possible.)

Company Name: <i>BARRY Damsch Consulting</i>	Project Name, PWS, Permit, Etc.: <i>Sanitation Inc closed landfill</i>	Sample Origin State: <i>MT</i>	EPA/State Compliance: Yes ☒ No ☐
Report Mail Address (Required): <i>5531 YORK RD Hartford, CT 06102</i>	Contact Name: <i>Barry Damsch</i>	Phone/Fax: <i>461-5063</i>	Sampler: (Please Print) <i>B. Damsch</i>
☐ No Hard Copy Email: <i>Hand copy only</i>	Invoice Contact & Phone: <i>Same as above</i>	Purchase Order:	Quote/Bottle Order:

Invoice Address (Required): <i>Same as above BARRY Damsch HARTFORD CT</i>	Number of Containers Sample Type: AWS V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water ANALYSIS REQUESTED SEE ATTACHED Standard Turnaround (TAT) R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Comments:	Shipped by: RUSH GRND Cooler ID(s):																																										
Special Report/Formats: ☐ DW ☐ POTW/WWTP ☒ State: <i>MT</i> ☐ Other: <i>DEQ Solid waste</i> ☐ EDD/EDT (Electronic Data) Format: _____ ☐ LEVEL IV ☐ NELAC		Receipt Temp: <i>2.6 TB °C</i> On Ice: ☒ Y ☐ N Custody Seal On Bottle ☒ Y ☐ N On Cooler ☒ Y ☐ N In tact ☒ Y ☐ N Signature Match ☒ Y ☐ N																																											
<table border="1"> <thead> <tr> <th>SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)</th> <th>Collection Date</th> <th>Collection Time</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr> <td><i>Simw-2</i></td> <td><i>6-23-14</i></td> <td><i>1230</i></td> <td><i>GW</i> X</td> </tr> <tr> <td><i>Simw-3</i></td> <td><i>↓</i></td> <td><i>1330</i></td> <td><i>GW</i> X</td> </tr> <tr> <td><i>Simw-4</i></td> <td><i>↓</i></td> <td><i>1430</i></td> <td><i>GW</i> X</td> </tr> <tr> <td><i>Simw-4b</i></td> <td><i>↓</i></td> <td><i>1430</i></td> <td><i>GW</i> X</td> </tr> <tr> <td><i>Trip Blank</i></td> <td><i>↓</i></td> <td><i>-</i></td> <td><i>1W</i> X</td> </tr> <tr> <td><i>TB 161014-4151</i></td> <td></td> <td></td> <td></td> </tr> <tr><td>7</td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td></tr> </tbody> </table>	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	<i>Simw-2</i>	<i>6-23-14</i>	<i>1230</i>	<i>GW</i> X	<i>Simw-3</i>	<i>↓</i>	<i>1330</i>	<i>GW</i> X	<i>Simw-4</i>	<i>↓</i>	<i>1430</i>	<i>GW</i> X	<i>Simw-4b</i>	<i>↓</i>	<i>1430</i>	<i>GW</i> X	<i>Trip Blank</i>	<i>↓</i>	<i>-</i>	<i>1W</i> X	<i>TB 161014-4151</i>				7				8				9				10				Laboratory Use Only: <i>14062504-001</i> <i>002</i> <i>003</i> <i>004</i> <i>005</i> <i>006</i>
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Custody Record MUST be Signed	Relinquished by (print): <i>BARRY DAMSCH</i>	Date/Time: <i>6-25-14 1745</i>	Signature: <i>[Signature]</i>	Received by (print): <i>Starla Jones</i>	Date/Time: <i>6-25-14 5:45</i>	Signature: <i>[Signature]</i>
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal:	Return to Client:	Lab Disposal:	Received by Laboratory:	Date/Time:	Signature:

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested.

